CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 28, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Feb. 28	Boilers & stokers	Wash., D. C.	S. & B. S.	2-21
Mar. *1	Pipe, etc.	Winnipeg, Man.	S. & B. S.	1-3
*1	Vit. paving	St. Clairsville, Ohio	S.	2-7
*5	Canals & ditches	Williston, N. Dak.	P., S. & B. S.	2-7
*12	Canals	Huntley, Mont.	P., S. & B. S.	2-7
*15	Dam	Great Falls, Mont.	P., S. & B. S.	2-7
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10
23	Officers' quarters	Charleston, S.C.	S.	2-21
30	Capstans	Norfolk, Va.	S.	2-21
30	Capstans	Charleston, S. C.	S.	2-21
*30	Water tank & tower	Wash., D.C.	S.	2-28

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Feb. 28	Lighting	Hudson, N. Y.	Feb.	21
Feb. 28	Boilers and stokers	Washington, D. C.	Feb.	21
Feb. 28	Dam and power-house	Streetsville, Ont.	Feb.	14
Mar. 5	Electric lighting	Holton, Kan.	Feb.	21
Mar. 7	Lighting	Natchez, Miss.	Dec.	20
	Advertised, Eng. News, Dec. 20 and 27.			
Mar. 12	Power plant	Washington, D. C.	Feb.	7
	Advertised, Eng. News, Feb. 7 to 21.			

BRIDGES.

Feb. 28	Raising bridge	Crookston, Minn.	Feb.	14
Mar. 1	Bridge	Cincinnati, Ohio	Feb.	14
Mar. 1	Viaduct	Louisville, Ky.	Feb.	14
Mar. 2	Replanking	Cleveland, Ohio	Feb.	21
Mar. 2	Bridge	Centerville, Cal.	Feb.	28
Mar. 2	Bridge repair	New Westminster, B. C.	Feb.	28
Mar. 4	Bridge and culvert	Leavenworth, Kan.	Feb.	21
Mar. 5	Bridge	Hollister, Cal.	Feb.	21
Mar. 5	Bridges	Paola, Kan.	Feb.	21
Mar. 5	Bridge	Hawkinsville, Ga.	Feb.	21
Mar. 5	Bridge	Fresno, Cal.	Feb.	28
Mar. 6	Culverts, etc.	Cleveland, Ohio	Feb.	21
Mar. 7	Bridges	La Grande, Ore.	Feb.	28
Mar. 7	Bridges	San Diego, Cal.	Feb.	28
Mar. 7	Viaduct	Jersey City, N. J.	Feb.	28
Mar. 9	Bridge and culvert	Cleveland, Ohio	Feb.	28
Mar. 11	Bridges	East Zorra, Ont.	Feb.	28
Mar. 11	Steel bridge	Petersburg, Va.	Feb.	28
	Advertised, Eng. News, Feb. 28.			
Mar. 12	Bridge	Napa, Cal.	Feb.	28
Mar. 13	Superstructure	Camden, N. J.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 18	Aqueduct	New York, N. Y.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 18	Superstructure	Chillicothe, Ohio	Feb.	28
Mar. 18	Bridges	Chillicothe, Ohio	Feb.	28
Mar. 19	Superstructure	Shellmouth, Man.	Feb.	28
Mar. 20	Bridge	Yorkville, S. C.	Feb.	28
Mar. 20	Bridges	Dauphin, Man.	Feb.	28
Apr. 1	Bridges	Salinas, Cal.	Feb.	21
Apr. 1	Bridge	Greenwood, Miss.	Jan.	31
Apr. 29	Viaduct	New Orleans, La.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Apr. 11.			

BUILDINGS.

At once	Building	San Francisco, Cal.	Feb.	28
Mar. 1	Y. M. C. A. building	Norfolk, Va.	Feb.	14
Mar. 1	Plumbing, etc.	New York, N. Y.	Feb.	14
Mar. 1	Designs	Trenton, N. J.	Feb.	14
Mar. 4	Leper hospital	Hawaii	Feb.	7
Mar. 4	Door frames, etc.	Washington, D. C.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 4	School	New York, N. Y.	Feb.	21
Mar. 4	Heating, etc.	New York, N. Y.	Feb.	21
Mar. 5	Interior finish	Cleveland, Ohio	Jan.	31
	Advertised, Eng. News, Jan. 31.			
Mar. 11	Heating, etc.	New York, N. Y.	Feb.	28
Mar. 11	Schools	New York, N. Y.	Feb.	28
Mar. 14	Post-office, etc.	Spokane, Wash.	Feb.	7
Mar. 16	Pipe, etc.	Washington, D. C.	Feb.	28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			
Mar. 21	Post-office	Owosso, Mich.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 23	Officers' quarters	Charleston, S. C.	Feb.	21
Mar. 23	Post-office	Green Bay, Wis.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Apr. 1	Buildings	North Chicago, Ill.	Feb.	21
Apr. 9	Court-house	Carthage, Ill.	Feb.	28
Apr. 3	Plumbing fixtures	Washington, D. C.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
May 1	Plans	Milwaukee, Wis.	Feb.	28

WATER SUPPLY AND IRRIGATION.

Feb. 28	Water mains	Salt Lake City, Utah	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Mar. 1	Pipe and specials	Winnipeg, Man.	Dec.	20
	Advertised, Eng. News, Dec. 20 to Feb. 21.			
Mar. 1	Well	Bunkie, La.	Feb.	28
Mar. 1	Cast-iron pipe	Ironton, Ohio	Feb.	28
Mar. 2	Cast-iron pipe	Milwaukee, Wis.	Feb.	28
Mar. 2	Hydrants	Washington, D. C.	Jan.	31
Mar. 2	Cast-iron pipe	Springfield, Mass.	Feb.	21
	Advertised, Eng. News, Feb. 21.			
Mar. 4	Water-works and sewers	Rolla, Mo.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 4	Meters	Painesville, Ohio	Feb.	28
Mar. 4	Boilers	Rock Island, Ill.	Feb.	28
Mar. 5	Water-works	Boston, Mass.	Feb.	21
Mar. 5	Ditches	Storm Lake, Iowa	Feb.	21
Mar. 5	Water-works	Decatur, Ga.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 7	Drain	Rockwell City, Iowa	Feb.	21
Mar. 7	Water mains	New York, N. Y.	Feb.	21
Mar. 5	Canals and ditches	Washnigton, D. C.	Jan.	10
	Advertised, Eng. News, Jan. 10 to Feb. 14.			
Mar. 7	Distributing system	Ft. Monroe, Va.	Feb.	7
	Advertised, Eng. News, Feb. 7 to 28.			
Mar. 7	Water mains	Salt Lake City, Utah	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Mar. 7	Chimney	Yonkers, N. Y.	Feb.	14
	Advertised, Eng. News, Feb. 14.			
Mar. 7	Water-works	Fort Monroe, Va.	Feb.	14
Mar. 12	Canals	Huntley, Mont.	Jan.	17
	Advertised, Eng. News, Jan. 17 to Feb. 7.			
Mar. 12	Cement	Huntley, Mont.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 12	Water-works	Spain (Foreign)	Feb.	28
Mar. 13	Remodeling pumping station, etc.	New York, N. Y.	Feb.	21
Mar. 15	Hydrants	St. Boniface, Man.	Feb.	21
Mar. 15	Dam	Great Falls, Mont.	Feb.	7
	Advertised, Eng. News, Feb. 7 to Mar 7.			
Mar. 15	High duty pumps	Fort Worth, Tex.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Mar. 14.			
Mar. 18	Water-works & Sewers	South McAlester, Ind. T.	Feb.	28
Mar. 19	Pumping plant	California City Point, Cal.	Feb.	14
Mar. 20	Water-works, etc.	Saskatoon, Alta.	Feb.	21
Mar. 30	Water tank and tower	Washington, D. C.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 22	Cast-iron pipe, etc.	Alma Center, Wis.	Feb.	28
Mar. 22	Tank, engine, etc.	Alma Center, Wis.	Feb.	28
Apr. 2	Mains	Crowley, La.	Feb.	28
Apr. 3	Canals, etc.	Great Falls, Mont.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 21.			
Apr. 3	Ditches	Parker, S. Dak.	Feb.	21
Apr. 10	Canal	Belle Fourche, S. Dak.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Apr. 15	Canal	Portland, Ore.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Apr. 17	Structures	Huntley, Mont.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			

SEWERAGE.

Feb. 28	Sewers, etc.	Ravenna, Ohio	Feb.	14
Feb. 28	Sewers	Salt Lake City, Utah	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Feb. 28	Sewers	Orangeburg, S. C.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 21.			
Mar. 2	Sewers	Decatur, Ill.	Feb.	28
Mar. 4	Sewer	Willoughby, Ohio	Feb.	14
Mar. 4	Sewers	Washington, D. C.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 5	Sewers	Fairbury, Neb.	Feb.	21
Mar. 5	Sewers	Batesville, Ark.	Feb.	28
Mar. 6	Sewers	Ann Harbor, Mich.	Feb.	21
Mar. 9	Sewers	Scranton, Pa.	Feb.	21
Mar. 9	Sewers	Decatur, Ill.	Feb.	28
Mar. 10	Sewer	Lima, Ohio	Feb.	21
Mar. 11	Septic tank	Aberdeen, S. Dak.	Feb.	14
Mar. 11	Sewers	Ottumwa, Iowa	Feb.	28
Mar. 12	Sewer	Sayre, Pa.	Feb.	14
	Advertised, Eng. News, Feb. 14 to 28.			
Mar. 12	Sewers, etc.	National Home, Wis.	Feb.	21
Mar. 14	Sewer	St. Bernard, Ohio	Feb.	21
Mar. 18	Sewers	Burlington, Iowa	Dec.	27
	Advertised, Eng. News, Dec. 27.			
Mar. 19	Pumping engines	Summit, N. J.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Mar. 14.			
Mar. 20	Pipe sewer	Pittsburg, Kan.	Feb.	28
Mar. 20	Sewers	White Plains, N. Y.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Apr. 2	Sewer	Crowley, La.	Feb.	21

STREETS AND ROADS.

Feb. 28	State highway	Columbus, Ohio	Feb.	7
Feb. 28	Sidewalks	Salt Lake City, Utah	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Feb. 28	Asphalt	Winnipeg, Man.	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Feb. 28	Asphalt	Winnipeg, Man.	Jan.	31
Feb. 28	Paving, Corning, N. Y.		Jan.	24
	Advertised, Eng. News, Jan. 24 to Feb. 7.			
Mar. 1	Vitrified paving	St. Clairsville, Ohio	Feb.	7
	Advertised, Eng. News, Feb. 7.			
Mar. 1	Improving streets	Corvallis, Ore.	Jan.	10
Mar. 1	Road work	Waterloo, Iowa	Feb.	21
Mar. 1	Paving, etc.	Valdosta, Ga.	Feb.	28
Mar. 1	Paving	Austin, Tex.	Feb.	28
Mar. 1	Paving	Regina, Sask.	Feb.	28
Mar. 3	Road work	Palo Alto, Iowa	Feb.	21
Mar. 4	Gravel roads	Decatur, Ind.	Feb.	21
Mar. 4	Paving	Port Clinton, Ohio	Feb.	21
Mar. 4	Paving	Kalamazoo, Mich.	Feb.	21
	Advertised, Eng. News, Feb. 21.			
Mar. 4	Paving, etc.	Goshen, Ind.	Feb.	7
Mar. 4	Macadam, etc.	Annapolis, Md.	Feb.	14
Mar. 4	Paving	Mishawaka, Ind.	Feb.	28
Mar. 5	Brick paving	Paris, Ill.	Feb.	28
	Advertised, Eng. News, Feb. 28.			
Mar. 5	Grading, etc.	Lima, Ohio	Feb.	28
Mar. 5	Grading	Astoria, Ore.	Feb.	28
Mar. 5	Highway	Wooster, Ohio	Feb.	14
Mar. 5	Gravel roads	Vincennes, Ind.	Feb.	21
Mar. 5	Macadam	Somerville, N. J.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 6	Highway	Akron, Ohio	Feb.	21
Mar. 6	Paving, etc.	New York, N. Y.	Feb.	21
Mar. 6	Grading, etc.	New York, N. Y.	Feb.	28
Mar. 7	Gravel road	Columbus, Ind.	Feb.	28
Mar. 7	Improving highways	Indianapolis, Ind.	Feb.	28
Mar. 7	Repairing wall and roadway	Jersey City, N. J.	Feb.	28
Mar. 7	Gravel road	Brazil, Ind.	Feb.	21
Mar. 7	Highway	Newark, Ohio	Feb.	21
Mar. 7	Gravel, etc.	New York, N. Y.	Feb.	21
Mar. 7	Paving, etc.	Two Rivers, Wis.	Feb.	14
Mar. 8	Gravel road	Princeton, Ind.	Feb.	14
Mar. 8	Curbs and gutters	Valparaiso, Ind.	Jan.	17
Mar. 8	Paving	Marysville, Ohio	Feb.	28
Mar. 9	Paving, etc.	Cleveland, Ohio	Feb.	28
Mar. 9	Paving	Greenfield, Ind.	Feb.	28
Mar. 11	Paving	Adrian, Mich.	Feb.	28
Mar. 11	Paving	St Catharines, Ont.	Feb.	28
Mar. 11	Paving	Titusville, Pa.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 13	Macadam	Camden, N. J.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 7.			
Mar. 14	Paving	Watertown, N. Y.	Feb.	28
	Advertised, Eng. News, Feb. 28.			
Mar. 14	Sod	New York, N. Y.	Feb.	28
Mar. 15	Road	Harrisburg, Pa.	Feb.	28
Mar. 15	Improving grounds	Salem, Ore.	Feb.	14
Mar. 16	Paving	Omaha, Neb.	Feb.	21
Mar. 16	Improving battlefield	Washington, D. C.	Feb.	28
Mar. 16	Road work	Waterloo, Iowa	Feb.	28
Mar. 18	Paving	Columbus, Ind.	Feb.	28
Mar. 18	Highway	New Philadelphia, Ohio	Feb.	28
Mar. 18	Paving, etc.	Port Chester, N. Y.	Feb.	28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			

MISCELLANEOUS CONTRACTS.

Feb. 28	Buoy service	Buffalo, N. Y.	Feb.	14
Feb. 28	Rubblestone	Boston, Mass.	Feb.	7
	Advertised, Eng. News, Feb. 7 to 21.			
Mar. 1	Garbage removal	Adrian, Mich.	Jan.	24
Mar. 1	Channel improvements	Boston, Mass.	Feb.	21
Mar. 1	Dock, etc.	Toronto, Ont.	Feb.	28
Mar. 2	Dredging	New London, Conn.	Jan.	31
	Advertised, Eng. News, Jan. 31 to Feb. 21.			
Mar. 4	Drains	Clarion, Iowa	Feb.	14
Mar. 5	Locks, gates, cement	Columbus, Ohio	Feb.	14
Mar. 5	Naval supplies	Washington, D. C.	Feb.	14
Mar. 5	Buoy service	Tompkinsville, N. Y.	Jan.	31
Mar. 5	Repairing ferry-boats, etc.	N. York, N.Y.	Feb.	21
Mar. 5	Quay wall, etc.	Belgium (Foreign)	Feb.	28
Mar. 6	Railway	Belgium (Foreign)	Feb.	28
Mar. 6	Telephone and telegraph material	South Australia (Foreign)	Feb.	28
Mar. 6	Street railway	Hattiesburg, Miss.	Feb.	21
Mar. 6	Rebuilding canal locks, cement, etc.	Columbus, Ohio	Feb.	7
	Advertised, Eng. News, Feb. 7 to 28.			
Mar. 6	Levee	Memphis, Tenn.	Feb.	14
Mar. 7	Chimney	Yonkers, N. Y.	Feb.	14
	Advertised, Eng. News, Feb. 14.			
Mar. 9	Barges	Montgomery, Ala.	Feb.	28
Mar. 11	Lumber	Wheeling, W. Va.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 11	Repairing dikes	New York, N. Y.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 12	Bear-trap gates	Wheeling, W. Va.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Mar. 12	Supplies	Panama	Feb.	28
Mar. 12	Drain	Algona, Iowa	Feb.	28
Mar. 14	Incinerator	New York, N. Y.	Feb.	28
Mar. 16	Sea-wall, etc.	Philadelphia, Pa.	Feb.	28
	Advertised, Eng. News, Feb. 28 and Mar. 7.			
Mar. 18	Tunnel	New Zealand (Foreign)	Sept.	13
	Advertised, Eng. News, Sept. 13 to Mar. 14.			
Mar. 18	Lock-gate machinery	Boston, Mass.	Feb.	21
	Advertised, Eng. News, Feb. 21 and 28.			
Mar. 18	Removing bedrock	Detroit, Mich.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Excavation	Boston, Mass.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Dredging	Des Moines, Iowa	Feb.	21
Mar. 20	Pontoons	Cincinnati, Ohio	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 20	Dredging	Grand Rapids, Mich.	Feb.	28
Mar. 22	Dredging	Chicago, Ill.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 22	Steel wall lockers	West Point, N. Y.	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 22	Lock and dam, etc.	Cincinnati, Ohio	Feb.	21
	Advertised, Eng. News, Feb. 21 to Mar. 14.			
Mar. 25	Dredging	Jacksonville, Fla.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			
Mar. 25	Telephone cable	Western Australia (Foreign)	Feb.	28
Mar. 27	Dredging	New Orleans, La.	Jan.	24
	Advertised, Eng. News, Jan. 24 and 31.			
Mar. 28	Canal	Boston, Mass.	Feb.	14
	Advertised, Eng. News, Feb. 14 to 28.			
Mar. 30	Capstans	Charleston, S. C.	Feb.	21
Mar. 30	Capstans	Norfolk, Va.	Feb.	21
Mar. 30	Timber land	Scranton, Miss.	Feb.	28
	Advertised, Eng. News, Feb. 28 to Mar. 21.			
Apr. 2	Reclamation work	British India (Foreign)	Jan.	17
Apr. 5	Drain	Algona, Iowa	Feb.	28
Mar. 6	Engineers	Washington, D. C.	Feb.	28
Mar. 6	Apprentice Topographic Draftsman	Washington, D. C.	Feb.	28
Apr. 11	Cement	Brandon, Man.	Feb.	14
	Advertised, Eng. News, Feb. 14 to Mar. 7.			
Apr. 12	Ditches	Brookings, S. Dak.	Oct.	13

CIVIL SERVICE EXAMINATIONS.

Mar. 5	Rodman	New York, N. Y.	Feb.	7
	Advertised, Eng. News, Feb. 7 and 14.			
Mar. 6	Irrigation Manager	Washington, D. C.	Jan.	31
Mar. 6	Superv. Drainage Engr.	Wash., D. C.	Jan.	31
Mar. 6	Assayer	Kansas City, Mo.	Feb.	21
Mar. 6	Geologist	Philippines	Feb.	21
Mar. 7	Masonry Inspector	New York, N. Y.	Feb.	14
Mar. 13	Draftsmen	Washington, D. C.	Feb.	28
Mar. 13	Topographic and Cartographic Draftsman	Washington, D. C.	Feb.	28
Mar. 16	Asst. Inspector of Gas	Albany, N. Y.	Feb.	21
Mar. 20	Draftsman and Surveyor	Hawaii	Feb.	28
Mar. 20	Forest Supervisor	Alaska	Feb.	28

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS, OKLAHOMA & WESTERN.—Company has been chartered in Arkansas, with $3,000,000 capital. It will build a standard-gage line from Eureka Springs, Ark., via Rogers, Springtown and Siloam Springs to Pryor Creek, Ind. T. It is reported that this company will purchase the Rogers Southwestern Ry. Co., having a line from Rogers to Springtown, and now building from Springtown to Siloam Springs. This will be extended to Pryor Creek, and from Rogers to Eureka Springs, altogether 62 miles. The incorporators are: W. P. Felker, J. E. Felker, F. F. Freeman, Alf L. Williams, J. W. Walker, H. Van Smith and J. S. McLeod, of Eureka Springs, Ark.

BIRMINGHAM & SOUTHWESTERN.—The name of the Birmingham & Mississippi Southern has been changed to the Birmingham & Southwestern. Company will build a line from Baton Rouge, La., to Birmingham, Ala., with a branch from Waynesboro to Pascagoula, Miss. A. H. Longino, of Jackson, Miss., is Pres.; D. C. Dunlap, Engr., of Chicago, Ill., and W. A. Aaron, of Hattiesburg, Miss., are making a reconnoissance of the line, it is reported.

BRANDON & LAUREL.—This company has been organized to build a railroad from Brandon via Raleigh to Laurel, Miss. Surveys have been commenced by R. Covington, Ch. Engr. A. J. McLaurin and H. A. Busick, of Brandon, Miss., are interested.

BUFFALO CREEK & GAULEY.—We are officially advised that the contract for building a two-mile extension was let to J. V. TULLEY, of Sutton, W. Va. William D. Janney, Clay, W. Va., is Ch. Engr. The line will be 41 miles long, extending from Dundon to Camden-on-Gauley, W. Va. John Y. Boyd is Pres., Harrisburg, Pa. Survey is made and right-of-way is partly secured. Capital is ready.

BURR'S FERRY, BROWNDEL & CHESTER.—We are officially advised that contract for building from Aldridge to Browndel, 21 miles, has been let to the WOMACK CONSTRUCTION CO., of Houston. Company has completed surveys from Rockland, Tex., east via Browndel to Burkville, 52 miles. Right-of-way is secured. Work will be of a rough nature. The road has been constructed from Rockland to Aldridge, 7.7 miles. This line is projected from Chester, in Tyler County, Tex., east via Rockland and Browndel to Burr's Ferry on the Sabine River, about 80 miles. It is also proposed to extend line into the timber forests of Louisiana in the direction of Alexandria. John H. Kirby is Pres., Houston, Tex. P. G. Omobondro is Ch. Engr., at Beaumont.

CANADIAN NORTHERN.—The following lines are proposed in Ontario: (1) from Washago to Kincardine; (2) from Arnprior to the St. Lawrence near Gananoque; (3) from Pembroke to Lake Ontario, between Toronto and Belleville; (4) from the Toronto-Ottawa line northwesterly to the Georgian Bay; (5) from Toronto to Windsor via Hamilton and London, with branches to St. Thomas and Sarnia; (6) from the Niagara River through Hamilton to Goderich; (7) from Lake Erie to Georgian Bay through Brantford or Berlin; (8) from Washago to Georgian Bay; (9) from a point north of Montreal west to the Toronto-Ottawa line at Lanark or Leeds. Bill providing for their construction is before the Government Committee.

CANON CITY & ROYAL GORGE.—This company has applied for a charter in Colorado to build a railroad from Canon City to the Royal Gorge. Capital stock, $1,000,000. Incorporators are: F. D. Heath, James H. Peabody and W. H. Peabody, of Canon City, Colo.; W. W. Umberhauer and Thomas J. Budd, of Philadelphia, Pa., and Willis Wood and William Huttig, of Kansas City, Mo.

COLUMBIA RIVER, OUTLOOK & NORTHERN.—Incorporated in Washington to build a railway from Vancouver, Clarke County, to Spokane, 300 miles. Capital stock, $3,000,000. The incorporators are W. McF. Stewart and M. C. Stewart. Principal office, Outlook, Yakima County, Wash.

DENVER, NORTHWESTERN & PACIFIC.—H. A. Sumner, Ch. Engr., Denver, advises us that this railway, when completed, will extend from Denver, Colo., to Salt Lake City, Utah, a distance of 579 miles. Surveys have been run. Right-of-way is secured for over 250 miles. Line will be built three-quarters of the distance through river valley country, crossing the Continental Divide and the Wahsatch Range. Trains are now operated over 126 miles; 86 miles, between Kremmling, Colo., and Steamboat Springs, Colo., are now under contract as follows: ORMAN & CROOK, of Pueblo, Colo., 81 miles, and DUNPHY & NELSON, of Kremmling, Colo., five miles. It is expected to have track laid and trains running by Jan. 1, 1908.

DUE WEST.—We are officially advised that company has awarded contract to W. O. WILLARD, of Liberty, S. C., for grading line between Due West and Donalds, 4½ miles. Surveys are made and right-of-way and capital obtained. R. S. Galloway is Pres., Due West, S. C., and T. C. Anderson is Ch. Engr., Greenwood, S. C.

EDDY LAKE & NORTHERN.—This railway is under construction from Eddy Lake to Marion, S. C., 43 miles. Twelve miles have been completed from Eddy Lake to Hunting Swamp. Norman James is Pres., Baltimore, Md.; J. W. Little, Vice-Pres., Eddy Lake, S. C.; Ernest Beaty, Ch. Engr., Conway, S. C.

ERIE TERMINAL.—Incorporated in New Jersey with a capital stock of $300,000, for the purpose of carrying on some grade revision work for the Erie Railroad in New Jersey.

EUREKA HILL.—Incorporated in Utah to build a railway from near Silver City to a point on Godiva Mountain in Juab County, five miles. Capital stock, $50,000. Officers: President, C. W. Nibley; Vice-Pres., J. William Knight; Secy., Bela Kadish; Treas., John Pingree. Headquarters, Salt Lake City, Utah.

GRAND RAPIDS TERMINAL BELT.—This company, which was incorporated last year to build a belt line around the city of Grand Rapids, Mich., will begin grading work this spring. Line has been located from the Lake Shore & Michigan Southern to the Michigan Central, 3½ miles. E. H. Christ is Ch. Engr., Grand Rapids, Mich.

KANSAS CITY, LAWTON & PACIFIC.—This company, which proposes to build a railroad from Kansas City, Mo., to San Diego, Cal., 1,600 miles, will have mileage in the States through which it will pass as follows: Missouri, 110 miles; Oklahoma, 280 miles; Texas, 370 miles; New Mexico, 160 miles; Mexico, 440 miles; Arizona, 200 miles; California, 40 miles. The route is via Joplin, Mo., Muskogee, Hampton, Wewoka, and Ada, Ind. T., and Lawton, Okla., Diaz and Carlsbad, N. Mex., and El Paso, Tex. The line has been surveyed from Kansas City to Ada, Ind. T., 295 miles, and is under survey from Ada via Lawton, Okla., to the Red River, 190 miles. It is expected to begin active construction by April 1. R. P. KING, of Muskogee, Ind. T., has the contract for the ties and timber, and W. T. SHERWIN, of Pauls Valley, Ind. T., has the contract for a portion of the construction. George M. Paschal is Pres., Lawton, Okla.; J. T. Payne, Ch. Engr., Muskogee, Ind. T.; C. M. Rawlings, Secy., Odd Fellows' Bldg., St. Louis, Mo. E. A. Hill is Asst. Mgr., Odd Fellows' Bldg., St. Louis. Noted on Jan. 24.

KINSTON & CAROLINA.—Company will apply to the North Carolina Legislature for a charter for its logging road now built about 35 miles from Kinston, N. C., toward Wilmington. The road is being extended and will shortly be connected with the Norfolk & Southern Railway. W. R. Hinnant is Gen. Supt., at Kinston.

MIDDLE FORK & QUICKSAND.—Incorporated in Kentucky to build a railroad from the mouth of Middle Fork Creek to the headwaters of Quicksand Creek, 24 miles, to reach new coal and timber lands. Incorporators: W. C. Gaylord, G. W. Gaylord and Boyd Helton. Survey is being made. R. G. Reynolds, Middle Fork, Ky., is Engr-in-Charge.

MINNEAPOLIS & RAINY RIVER.—We are officially informed that surveys are under way for an extension from Big Fork, Minn., north thirteen miles. Right-of-way is partly secured. Capital is ready. Contracts will be let in two or three months time. F. C. Gerhard is Gen. Mgr., Minneapolis, Minn.

NEBRASKA, KANSAS & SOUTHWESTERN.—F. T. Burnham, Secy., Beloit, Kan., states that this company proposes to build a railroad from Superior, Neb., to Dalhart, Tex., 500 miles, passing through Stockton, Ransom and Ness City, Kan. The line is under survey from Stockton to Ness City, Kan., 90 miles, and it is expected to begin construction about July 1. J. C. Hopper is Pres., Ness City, Kan. B. L. Brown is Ch. Engr., Laclede Bldg., St. Louis, Mo.

NORFOLK & WESTERN.—The MASON, HANGER & COLEMAN CO., of Richmond, Ky., has been awarded contract to build five miles of double-track on the Norfolk & Western Railway, near Thacker, W. Va., on the main line. The contract price is about $680,000. The work is to be completed in 1½ years.

OKLAHOMA, TEXAS & WESTERN.—We are officially informed that DONALD FITZGERALD, 80 Wall St., New York, has the contract for entire construction and equipment of this line, which will extend from Clinton, Okla., to Canadian, Tex., 108 miles. He has given bond for $100,000 to the railroad company for the completion and operation of the line before April 1, 1908. Right-of-way is practically all secured and capital is obtained. Sub-contracts will be let in April. H. D. Cox is Pres., Cheyenne, Okla.

OREGON STATE PORTAGE R. R.—The Oregon State Senate has passed a bill appropriating $60,000 for extension of this road from Big Eddy to The Dalles, Ore., 3½ miles. C. E. Steelsmith is Supt., Celilo, Ore.

PACIFIC RAILWAY & NAVIGATION COMPANY.—E. E. Lytle, Pres., Portland, Ore., writes that surveys are being made for the branch from Tillamook, Ore., up Wilson River, 30 miles, and that construction will be carried on by the company's forces. George L. Davis, Ch. Engr., Portland, Ore.

PEARL RIVER VALLEY.—Final surveys are being made for this road from Jackson, Miss., to Columbus, and most of the right-of-way has been secured from Jackson to Carthage. Fred. W. Herrick is Pres., Milwaukee, Wis. Headquarters of company will be at Jackson, Miss. Mr. Herrick is also president of the Alabama & Tombigbee R. R. Co.

PENOBSCOT BAY.—It is announced that work will begin in the spring on this road, which will run from Rockland, Me., through Rockport, Camden, Lincolnville and Northport to Belfast, Me., a distance of 32 miles. The officers are: Pres., Maynard S. Bird; Treas., D. M. Murphy. Arthur S. Littlefield and H. Irving Hicks, of Rockland, Me.; H. L. Shepherd, Rockport, Me., and Albert Peirce, of Frankfort, Me., are also interested.

SACRAMENTO VALLEY & EASTERN.—J. McCARTHY, of Oakland, Cal., has been awarded the contract for building the first ten miles of this road, which is projected from Kennett, Cal., to the mines of Bully Hill Copper Mining & Smelting Co., at Delmar, a distance of 14 miles. D. M. Riordan, 42 Broadway, New York, is Pres. F. J. Dearborn, of Winthrop, Cal., is Ch. Engr.

SAN DIEGO & ARIZONA.—William Clayton, Vice-Pres., San Diego, Cal., advises us that no contracts will be let by this company at present. Company owns complete grading equipment, which is large enough for all preliminary work. Surveys are partly made and right-of-way is being obtained. Company was incorporated in California to build a railway from San Diego to Yuma, Ariz. Capital, $6,000,000. The incorporators are: John D. Spreckels, A. B. Spreckels, John D. Spreckels, Jr., William Clayton and Harry L. Titus. They have subscribed $200,000 of the capital stock, or $1,000 for each mile of the proposed railway.

STEPHENVILLE, NORTH & SOUTH.—Incorporated in Texas to build a railroad from Stephenville south to Hamilton, 35 miles. Capital stock, $250,000. Incorporators: B. C. Cage, J. M. Cage, J. D. Cage, J. H. Cage, W. S. Watson, Marshall Ferguson, Mrs. M. J. Crow, all of Stephenville, and John Spurlin, of Hamilton.

TEMISKAMING & NORTHERN ONTARIO.—Contract has been let to McRAE, CHANDLER & McNEIL, of Quebec, Que., at about $1,000,000, for extending this road to a junction with the Grand Trunk Pacific at a point about 112 miles north of Englehart. Track has been laid to McDougalls Chute, 54 miles north of Engelhart, and the work called for in the contract is for about 58 miles. Contract for 65,000 tons of rails has been given to the ALGOMA STEEL CO., of Sault Ste. Marie, Ont.

WESTERN & GULF.—G. D. Allen, Ch. Engr., Americus, Ga., advises us that contracts will be let at once for building this line from Americus to Byronville and Unadilla, 51 miles. Plans and profiles can be obtained from Crawford Wheatley, Pres., at Americus. Surveys are made and capital and right-of-way have been secured.

WOLCOTTVILLE & COLDWATER.—Orville G. Wales, Pres. of the Panama Construction Co., 518 Reaper Block, Chicago, informs us that contracts will be let soon for building this line between Wolcottville, Ind., and Coldwater, Mich., 36 miles. Surveys are being run. Right-of-way and capital for construction are both partly secured. Motive power will be steam. A cement plant will be constructed in connection with the railroad.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ADAMS, MASS.—H. S. Durkee, C. E., of Springfield, and his assistants, W. C. Stearns, of Medford; J. E. Lofts, of Springfield, and D. Burgess, of Pittsfield, have started survey for the proposed electric road to the top of Greylock.

ITHACA, N. Y.—The Ithaca & Seneca Falls Interurban Railway Company has organized as follows: Jacob Rothschild, of Ithaca, Pres.; Cornelius S. Hood, of Seneca Falls, Vice-Pres.; J. N. Hammond, of Seneca Falls, Secy.; Francis M. Bush, of Ithaca, Treas. The other directors are: F. L. Hawes, of Ithaca; Thomas J. Clary and Olin E. Williams, of Seneca Falls; William P. Briggs, of Trumansburg, and Ogden J. Wheeler, of Romulus. All right-of-way is reported to have been secured and the route has been explored by surveyors under the direction of W. J. Hart, of Syracuse.

WATERTOWN, N. Y.—Foster P. Rhines, Pres. of the Chamber of Commerce, has been elected chairman of the general organization committee recently selected to carry into execution the plans for incorporating a company to build and operate an electric railroad from this city south and west. Frank Barry is the Secy. of the committee, and its treasurer is M. S. Wilder, of Carthage, N. Y.

NEW CASTLE, PA.—The Beaver Falls, New Castle & Youngstown Ry. Co. has been chartered. It indicates a merger of all the proposed interurban lines between here and the two other cities named. The right-of-way designated is from Beaver Falls to Hoytdale and Wampum to this city. A branch line is also provided for from Wampum to Ellwood. The incorporators are: C. J. D. Stroheckler, N. B. Duncan, Jordan Johnson, M. Bliss Dewey and George Nye.

READING, PA.—The Mohnsville & Adamstown Electric Railway Co. has elected the following officers: L. T. Custer, Pres.; John M. Frame, Secy. and Treas. The directors are: L. T. Custer, John M. Frame, D. B. Shepp, Elmer E. Billingfelt and V. S. Seltzer.

NEW CASTLE, PA.—The New Castle & New Wilmington Street Railway Co. has been granted a 50-year franchise by New Wilmington Town Council. The line must be in operation to New Castle within two years. Capital stock of the company is $40,000. It is estimated that it will cost $100,000 to build the line, with an additional $50,000 for equipment. New Castle Councils have received the ordinance for this line from committee with an affirmative recommendation. J. H. Veazy is Pres.

YORK, PA.—A. K. Frey, Samuel Fulton, Hugh Ross and others propose to construct an electric railway between York and Delta, a distance of 25 miles, by way of Airville, and connect with numerous small towns en route, it is reported. The company will be known as the Red Lion & Airville Traction Co. A petition filed with the Red Lion Borough Council by the company for the right-of-way over certain streets in that borough has been passed by the Council.

YOE, PA.—George A. Kohler and George W. Holtzinger, of York, are interested in the construction of an electric railway connecting Yoe and East Prospect, a distance of seven miles.

INDIANA, PA.—The Indiana, Punxsutawney & Sagamore Street Railway Co. has applied for a charter to build a line from Punxsutawney to Rossiter, Juneau, Locust, Richmond, Hamill, Marion Center, Kellyburg, Sharpsburg, Plumville, Chambersville, Creekside and Sagamore. The proposed line will be 35 miles long, and will connect at Punxsutawney with the Jefferson Traction Co. and also with the surveyed line of the Indiana, Clymer and Creekside Street Railway Co. at Creekside. The incorporators are: D. H. Clark, W. F. Elkin, J. A. Klingensmith, J. N. Langham and J. D. Ake.

JOHNSTOWN, PA.—PIERCE & BARNES, Engrs., 7 Water St., Boston, Mass., are reported to have been awarded contract for building the Johnstown, Ebensburg & Northern Electric Ry. Co.'s line. Noted fully on Feb. 7.

BALTIMORE, MD.—L. G[illegible]ner, Pres. of the Lorraine Electric Railw[illegible], 206 Union Trust Bldg., states that its [illegible] is surveyed from a connection with the [illegible]ted Railways of Baltimore at Dickeyville [illegible] and into Lorraine Cemetery, about 1½ [illegible]. It will be single track, with 65-lb. T[illegible]. The road probably will be built unde[illegible] direction of Clinton M. Johnson, Engr.-in-[illegible]arge, and not by contract. The other off[illegible] of the company are James H. Pre[illegible], Vice-Pres.; William C. Page, Treas.; J. [illegible] Blackburn, Secy.

OPELIKA, ALA.—The C[illegible] Council of Opelika has granted an el[illegible] street railway franchise to H. L. McK[illegible] of Troy, Ala. The franchise is given for [illegible] term of 30 years.

YAZOO CITY, MISS.—The [illegible]ers-Johnson Company has made a propos[illegible] to the City Council to build a street railw[illegible] taking bonds in payment. Line is to be 3[illegible] long. Contract price, $53,776. Plans [illegible] specifications are to be reported on [illegible] an engineer employed by the city.

FINDLAY, OHIO.—L. W. [illegible]ecker, 801 New Hayden Bldg., Columb[illegible], advises us that it is proposed to build [illegible] electric line from Findlay southeast, thr[illegible] Mt. Blanchard, Forest, Marseilles and [illegible]chranton, to Marion, 47 miles. The railw[illegible] will be built by the Findlay-Marion Ry. & [illegible]ght Co. or as an extension of another [illegible]. Negotiations are pending for the ca[illegible] with which to build the line. Surveys [illegible] made and right-of-way secured. R. P. H[illegible]sey is Pres., 801 New Hayden Bldg.

MARIETTA, OHIO.—The Eastern Ohio Promoting Co., with general offices at Marietta, is promoting the following lines: The Bellaire, Marietta, Belpre & Ohio Tramway Co.; the Marietta, Caldwell, Athens, Nelsonville, Glouster, Corning & Columbus Tramway Co.; the Standard Eastern Electric Juice Co., and the Washington County (Ohio) Clay Development Co. Albert E. Boone, of Zanesville, Ohio, is now the promoter and general manager of each of these companies. John Bane, Continental Hotel, Philadelphia, Pa., is in charge of the financing. Evan D. Davis, Gallipolis, Ohio, is the Gen. Counsel. Jenkin W. Jones, of Gallipolis, is the Ch. Engr. of these companies. Work on the first-named line will start at once.

LA FAYETTE, IND.—I. E. Switzer, Pres. of the La Fayette & Hoopston Ry. Co., Otterbein, Ind., advises us that company has made surveys for its proposed line between La Fayette and Hoopston, 46 miles. Motive power has not been determined. John W. Ferrell is Ch. Engr., at La Fayette. Right-of-way is partly obtained. Capital for construction has not been secured. Contracts will not be let for some time.

MURPHYSBORO, ILL.—The City Councils of Carbondale and Murphysboro have granted the Southern Illinois Transit Co. franchises to construct and operate an electric railway for a period of 30 years. The Transit Company proposes to build an electric line from Murphysboro to Johnson City, the work to begin within 90 days. The preliminary surveys and estimates have already been made.

CARTHAGE, ILL.—We are officially informed that the Mississippi Valley Electric Railway Co. has recently been incorporated to build an electric road between Carthage and Nauvoo, Ill., connecting with Keokuk and Fort Madison, Iowa. Total trackage about 45 miles. The temporary offices of the company are with the Fidelity Insurance Co., First National Bank Bldg., Chicago, Ill. A corps of engineers are now in the field making final surveys. Major W. A. Calhoun, C. E. and M. E., of Buffalo, N. Y., is Consult. Engr. for the project. The company contemplates building the greater portion of its line this year. Financial matters have all been arranged for.

ALBIA, IOWA.—Cal Manning, of Ottumwa, A. S. Kimberly, of New York; C. B. Judd, of Pittsburg, and C. A. Ross, of Chicago, have applied to the City Council for a street railway franchise. An election will be held to vote on the proposition. They promise to begin work in six months and have three miles of road in operation within one year.

DULUTH, MINN.—The West Duluth Commercial Club is reported to be taking active steps toward securing an electric line to Proctor, and has appointed a committee, consisting of W. B. Getchell, J. B. Flack and William Langslow, to confer with a committee from the Proctor Council in regard to the project.

WEATHERFORD, TEX.—At a recent meeting of the City Council G. M. Bowie, of this city, was granted a franchise, and entered into a contract with the city of Weatherford to construct, equip and operate an electric street railway line over the streets of this city. It is stipulated in the contract that the line must be built and cars in operation within one year from date of the signing of the contract.

CORPUS CHRISTI, TEX.—The Corpus Christi Street Railway Co., capital $25,000, has been organized and will apply for a charter to build a line several miles long. The directors are W. G. Blake, G. R. Scott, E. A. Born, E. B. Cole and George W. Grim.

DALLAS, TEX.—The American Engineering Co., of Indianapolis, Ind., has received the contract for the engineering work for building 26 miles of electric line in the city of Dallas, Tex., and 47 miles of electric traction line from Greenville to Dallas, for the Dallas Interurban Electric Railway Co. The interurban company is organized with a capital stock of $2,400,000. Noted last week.

DENVER, COLO.—The Colorado & Southern Railway Co. is reported to have let a contract for grading 16 miles of its electric line, which will be built from Denver to Boulder, to the PHILLIPS & O'GARA CONSTRUCTION CO. The work will be completed by September, 1907. There still remain about 15 miles of grading to be contracted for. The loop of the steam lines between Louisville Junction and Boulder will be paralleled by the electric line. Contracts will be let so this work will be finished at about the same time

as the work between Argo and Louisville Junction. H. C. Van Buskirk is Supt. Motive Power.

MANITOU, COLO.—The Manitou & Crystal Park R. R. and the Manitou & Interurban companies have been incorporated, the capitalization being placed at $1,300,000 and $600,000, respectively. The directors of both companies are: C. W. Dolph, J. K. Vanatta, E. A. Sawyer, William Garstin and S. D. McCracken. The offices of both companies will be in Colorado Springs, Colo.

SPOKANE, WASH.—The County Commissioners have granted a franchise to the Okanogan Electric Railway Co. to construct its line from Nighthawk to Columbia Valley. A. M. Dewey is one of the promoters. Noted on Jan. 31.

REDLANDS, CAL.—The Redlands & Yucaipe Electric Railway Co. has been incorporated. C. S. Chestnut is Pres. George H. Dunn, O. D. Collins, O. M. Miller and A. A. Moore are interested. The company is capitalized at $1,000,000. It was recently granted a franchise to run from the center of this city to the east city limits on Reservoir St., and from there it is proposed to run to Oak Glen, the highest point in the Yucaipe Valley. At Oak Glen Park, which is 5,000 ft. above sea level, the railway company plans to erect a fine tourist hotel, to be surrounded with a park, according to press reports.

ALAMEDA, CAL.—F. M. Greenwood has filed with the City Trustees his acceptance of the conditions under which he is to be granted a franchise for an electric road and ferry system, and he announced that work would be commenced at once. Mr. Greenwood is to post a $50,000 cash deposit before March 20th or forfeit his franchise.

BISBEE, ARIZ.—Contract has been awarded to the HAGGOTT-GIRAUD-SMITH CO., of Prescott, Ariz., for preparing the roadbed and sub-grade of approximately five miles of electric line for the Warren Co., between Bisbee, Ariz., and Warren, Ariz. Cleve W. Van Dyke is Mgr., Bisbee, Arizona.

BURLEY, IDAHO.—W. D. Kenyon, of Burley, who has been granted a franchise, with others, to build an electric railway in Cassia County, advises us that the company which will be organized will be known as the Idaho & Nevada R. R. Co. It will build a line, 25 miles long, between Burley and Oakley. Surveys have not been undertaken yet. Right-of-way is partly obtained. Capital has not been secured. The railway will run through a level country. Noted on Jan. 17.

TORONTO, ONT.—A syndicate has been formed and application is being made to Parliament for permission to build an electric elevated street railway here. S. R. Wickett and J. M. Sinclair, both of Toronto, are interested.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BRUNSWICK, ME.—A syndicate in which Charles Sumner Cook, of Portland, is interested has purchased the water privilege and property of the Androscoggin Pulp Co., in Brunswick, and in the spring a large electric power plant will be erected there. The price paid was about $150,000. It is reported that this privilege is one of the best on the Androscoggin River. It develops more than 1,500 HP., and there is plenty of room for a large power plant and any other buildings that the company may wish to build.

BRIDGEPORT, CONN.—It has been decided by the New York, New Haven & Hartford R. R. Co. to construct a power plant in this city, similar to the one at Cos Cob, for the electrification of the main line, in the south end of the freight yard convenient to the coal station. The plan is to bulkhead its property inside the harbor lines and make new ground. The improvements planned will cost more than $500,000. W. S. Murray is Electrical Engr., New Haven, Conn.

BALTIC, CONN.—We are officially advised that the Lucas Power Co., lately organized at Norwich, is now receiving bids for construction of its plant on the Shetucket River, about three miles north of Baltic. Estimated cost, $225,000. F. P. Sheldon & Co. are Des. Engrs.; J. D. Hall is Secy. Noted in issue of Feb. 7.

KENT, CONN.—The Stanley Works, Myrtle St., New Britain, has made application to the State Legislature for authority to generate electricity in the town of Kent and to transmit it to the company's plant in New Britain. The company has preliminary plans for the development of an extensive power plant, from which electricity will be transmitted over high-tension wires a distance of about 40 miles. Another provision of the resolution authorizes the company to increase its capital stock from $1,500,000 to $3,000,000.

SOUTH WINDHAM, CONN.—The Willimantic Gas & Electric Light Co., Kimball Bldg., Willimantic, Conn., is contemplating extension of its electric lighting service to South Windham and Windham Center. The company has the right to do this under its charter, and the possibility of making such an extension of the service is given as one of the reasons for seeking from the legislature the right to issue debenture bonds. The company desires authority to issue bonds of this class to the amount of $100,000. W. E. Haskins is Supt. and Ch. Engr.

SCHENECTADY, N. Y.—It is reported that the Schenectady Illuminating Co. will expend $700,000 in improving the plant. Hinsdill Parsons is Pres.; LeRoy Ripley is Supt.

CALLICOON, N. Y.—The Callicoon Electric Light, Heat & Power Co. proposes to construct an electric light plant to cost about $10,000. Martin Hermann, Callicoon, is Pres.

SCHAGHTICOKE, N. Y.—It is reported that the General Electric Co., of Schenectady, N. Y., is interested in a power dam to be constructed on the Hoosick River, near this village. According to plans part of the village of Schaghticoke will be flooded by the large lake to be formed by the dam, and Buskirk will be entirely covered by water. Parts of the Boston & Maine R. R. tracks will be submerged, and the company will have to change the location of the tracks. The plans also include the construction of an enormous reservoir near Johnsonville. Engineers have been surveying for the power development for two years or more, and it is said that nearly all the water rights have been secured. The dam will be between 200 and 300 yds. long and about 30 ft. high. The power station will be located at Buck's Neck, three-quarters of a mile distant.

NEW YORK, N. Y.—The lowest bid received Feb. 25 by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in new Public School No. 68, on the north side of Bergen Ave., between Rathjen Ave. and Henry St., Evergreen, Boro. of Queens, was that of F. Pearce Co., 20 Rose St., New York, at $6,448.

The following bids were the three lowest received Feb. 25 by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in new Public School No. 150, on Christopher Ave. and Sackman St., about 100 ft. south of Belmont Ave., Boro. of Brooklyn: Reis & O'Donovan, 1123 Broadway, $16,240; F. Pearce Co., 20 Rose St., $16,242; Commercial Construction Co., 1 Madison Ave., $16,841.

HADDONFIELD, N. J.—J. H. Young, Perry Bldg., Philadelphia, Pa., has been engaged to prepare plans for municipal electric light and water-works systems. Estimated cost, $125,000.

PITTSBURG, PA.—It is reported that WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York, N. Y., have secured the contract for the power-house for the homeopathic group of buildings in Shadyside, and have already begun work on the foundations; the buildings will cost about $22,000.

SCRANTON, PA.—The Scranton Ry. Co. has purchased the 9-acre plot on Providence Road directly across from their present power-house, including the baseball park, and will build a power-house and car barns. The proposed power-house, together with machinery, will cost about $300,000. Frank Caum, Witherspoon Bldg., Philadelphia, is Gen. Mgr.

WASHINGTON, D. C.—The BRENNAN CONSTRUCTION CO., 3056 K St., Washington, D. C., has secured contract for constructing brick power-house at the U. S. Soldiers' Home, Washington, at $73,000. Capt. J. S. Sewell is Officer in Charge of Construction.

WASHINGTON, D. C.—Bids were opened Feb. 25 in the office of Lieut. J. H. Poole, Supt. of the State, War and Navy Depts. building, Washington, D. C., for renewing the heating, lighting and power plant of that building. Bids were on Item 1, boilers and auxiliaries (three 185.4 B. & W. steel water tube boilers); Item 2, elevator pumps (two elevator pumping engines, etc.), and Item 3, general heating system, tanks, piping and miscellaneous. Bids were: Laidlaw-Dunn-Gordon Co., 114 Liberty St., New York, Item 2, $14,950; Hanley-Casey Co., 35 East Ohio St., Chicago, Item 1, $16,885; 3, $54,425; Evans, Almirall & Co., 281 Water St., New York, Item 3, $64,000, alternate, $58,533; Harry F. Murphy Co., 25 North Seventh St., Philadelphia, Item 3, $65,190; Babcock & Wilcox Co., 85 Liberty St., New York, Item 1, $15,644.

FRANKLIN CITY, VA.—It is reported that Arthur L. Osgood, of Philadelphia, Pa., will establish plant for furnishing Franklin City and Greenbackville with light, water and power.

CLIFTON FORGE, VA.—This town will let franchise March 4 for installation of electric light plant. J. A. Gleason is Chn. Water and Light Com.

BROOKNEAL, VA.—We are officially advised that local capitalists are forming a company to develop power at Brookneal, on the Staunton River, for transmission to Lynchburg. Estimated cost, $400,000. E. R. Monroe, Brookneal, is interested.

ROANOKE, VA.—The Baltimore "Sun" states that "the Roanoke Railway & Electric Co. announces that it will begin at once erecting a new plant to cost $225,000, on a site purchased from the Norfolk & Western Ry. Co. It is the intention of the company to have the plant in full operation by midsummer. The plant will be capable of producing 3,300 HP., which is regarded as ample for street cars, electric lighting and power purposes. In addition to the above amount, the company will spend $18,000 this year for the improvement of its street railway facilities. J. W. Hancock, Roanoke, is Gen. Mgr.

BARNWELL, S. C.—G. B. Todd, of Barnwell, will install an electric light plant with a capacity of 150 HP., to supply about 1,500 lights including arc lights. Bids are reported to have been received on parts of the equipment and machinery, and are now under consideration.

MACON, GA.—It is reported that the Bibb Power Co., lately incorporated, proposes to develop power on the Ocmulgee River, and will supply the Atlanta & Macon and the Macon & Albany electric railways. The incorporators of the power company are: W. J. Masse, John T. Moore, M. Felton Hatcher and M. H. Masse, of Macon; W. A. Wimbish, Prudential Bldg., Atlanta, Ga., and others.

ANNISTON, ALA.—At a recent meeting of the City Council the gas franchise of the Anniston Electric & Gas Co. was extended ten years. The company agrees to bring power from a water power which generates at least 8,000 HP. The company also agrees to spend $150,000 in improving its local plant. H. M. Sexton is Gen. Mgr.

HUNTSVILLE, ALA.—The power plant of the Huntsville Railway, Light & Power Co., Huntsville, will be doubled within the next few months. The purpose of this is to provide against an accidental shutdown of the service, and it is generally believed that it means the extension of the car system. Arrangements for the purchase of additional machinery and the beginning of the improvements will be made at once. The duplicate plant will cost something between $30,000 and $40,000, and will necessitate the enlargement of the power plant building. Francis N. Lawton, Huntsville, is Gen Mgr.

BIRMINGHAM, ALA.—The water powers of Locust Fork on the Warrior River, near Birmingham, have been purchased and options secured on about twelve miles of the Warrior River, with a view of developing it and furnishing Birmingham with 25,000 HP. and with water by a gravity canal for industrial and domestic purposes. Surveys have already been made. E. J. McCrossin, Woodward Bldg., Birmingham, and John L. Ray, Pres. of the Albertville Realty Co., Albertville, are interested.

ATMORE, ALA.—It is reported that a company has been formed to operate an electric light plant and ice factory at this town. The company will have a capital stock of $12,000 and has purchased the Atmore Mill & Gin Co. system. The company will install a new 60 or 70-HP. boiler and engine, and a 5-ton ice plant. The electric plant will have a capacity of from 1,000 to 1,200 lamps. The officers are M. M. Brooks, Pres.; W. W. Lowery, Vice-Pres.; W. S. Brantley, Secy. and Gen. Mgr.

LAKE CHARLES, LA.—It is reported that the Lake Charles Ice, Light & Water-Works Co. is considering the installation of 1,000-KW. turbines, an alternating-current generator and other equipment. J. A. Landry is Mgr.

POPLARVILLE, MISS.—The contract for erecting the power-house to be used jointly for the water-works and electric light plants has been awarded to W. P. CRAFT, of Ellisville, Miss., and the term of the contract calls for its completion in one month. The building will be made of brick, with a concrete floor, and will be of modern construction.

HUMBOLDT, TENN.—We are officially advised that contract has been awarded to BABCOCK & WILCOX CO., 85 Liberty St., New York, for installing a 250-HP. Sterling type water tube boiler. B. F. Jarrell is Secy. Bd. Pub. Works.

KNOXVILLE, TENN.—W. J. OLIVER & CO., Chattanooga, Tenn., have contract to construct a dam on the Little Tennessee River for the Knoxville Power Co. The dam will be 80 ft. high and over 500 ft. long. There will be a canal eight miles long with a tunnel of 800 ft. through a spur of the mountain. At the mouth of the tunnel will be the power-house. There will be a fall of 250 ft., and about 40,000 HP. will be obtained at the low stage of the river.

LEXINGTON, KY.—The Cumberland Falls Water Power Syndicate has been organized to develop the Cumberland River falls, utilizing the power for operating a chemical reduction plant and transmitting the surplus to Lexington, Frankfort, Louisville and other cities. It is proposed to build a concrete dam 82 ft. high, backing up the river about 26 miles, providing an effective head of 150 ft. at the dam and developing 20,000 HP. for transmission by electricity, the power plant complete being estimated to cost $2,000,000. Engineering work already completed at the falls permits the construction of the dam to begin at once. Arthur Giesler, 29 Broadway, New York, is the syndicate's consulting engineer, and is completing plans and specifications.

CLEVELAND, OHIO.—We are officially advised that the Royal Motor Car Co., of Cleveland, is providing for a power plant, in addition to other buildings, to serve its new factory. As soon as its advisory engineers, Dodge & Day, of Nicetown, Philadelphia, have decided on the nature and amount of power required, the details of the building will be determined upon.

CINCINNATI, OHIO.—The Executive Committee of the Union Gas & Electric Co. on Feb. 15 authorized laying new conduits, feeder mains and cables in the business district of Cincinnati. The installation of new purifying apparatus at the West End gas plant was also provided for, the entire proposition involving an expenditure of about $100,000. B. J. Jones is Supt.

CRAWFORDSVILLE, IND.—The Crawfordsville Electric Light & Power Co. will soon make extensive improvements to its system. A new engine and dynamo will be installed and the lines overhauled. James R. Thomas is Supt.

SOUTH BEND, IND.—We are officially advised that the South Bend Electric Co. will make changes in present plant, and will add a 1,500-KW. turbine and 1,000-HP. boilers. L. B. Andrus is Supt.

CRYSTAL, MICH.—Improvements will be made to the municipal electric light plant and water-works which will include the installation of a 250-KW. dynamo, 1,000-gallon pump and a turbine of 600 HP. Q. Stephany is Supt.

MARISSA, ILL.—A meter system will probably be installed at the municipal electric light plant, and 50 arc lamps or 100 series incandescent lamps will be added to the street lighting system, and the installation of a 300-HP. engine and a 125-KW. alternator is contemplated this coming summer. A cold storage plant of 10-ton capacity is now being added to the plant. J. R. Creighton is Mgr.

CHICAGO, ILL.—The GENERAL ELECTRIC CO., Monadnock Blk., has secured the contract to install motors in the municipal electric light station for $47,146. William Carroll is City Electrician.

LITCHFIELD, ILL.—The Litchfield Gas & Electric Co. is preparing plans for the installation of a boiler of from 200 to 250-HP. capacity, a 100-HP. engine, a 150-KW. alternating-current, two-phase generator, series alternating-current lighting system and 80 enclosed arc lamps of 2,000-c.p., with regulators and transformers. D. Davis is Mgr.

CLINTON, IOWA.—The Clinton Gas Light & Coke Co. is contemplating the installation of an additional 800-HP. engine and generator, also boilers and condensers, pumps, etc., also new gas apparatus. Thomas Crawford is Mgr.

SIOUX CITY, IOWA.—The Sioux City Gas & Electric Co. is considering improvements to its plant which will cost about $100,000. All wires within the city fire limit will be placed under ground, at a cost of $100,000. L. L. Kellogg, Sioux City, is Vice-Pres. and Gen. Mgr.

BELLEVILLE, KAN.—The W. A. FULLER ELECTRIC & STEAM ENGINEERING CO., Chemical Bldg., St. Louis, Mo., has the contract for constructing electric light plant for Belleville, at $25,000.

TOPEKA, KAN.—It is reported that H. K. Goodrich, Supt., is preparing plans for constructing a municipal lighting plant here.

ATCHISON, KAN.—The Atchison Ry., Light & Power Co. proposes building a new power-house and installing 60-cycle, three-phase induction motors. John S. Hackstoff is Mgr.

BAXTER SPRINGS, KAN.—J. B. Lucas, Mgr. of the Spring River Power Co., is making a survey on Spring River east of the Omaha mines for building a water-power plant. It is proposed to install a hydro-electric plant for the purpose of furnishing electricity for light and power to the mines of Baxter Springs.

YORK, NEB.—The York Gas & Electric Co. is contemplating adding 250 HP. to its plant during the coming season, and changing the system from direct to alternating current. G. W. Shreck is Mgr.

DENISON, TEX.—It is reported that the Denison Light & Power Co. is considering improvements to its gas and electric plant that will involve an expenditure of $50,000. It is proposed to sell the three 133-cycle belted dynamos now in use, and to replace these units with three direct-connected 60-cycle machines, with a capacity of 750 KW. W. A. Everitt is Mgr.

CAZADERO, ORE.—A second power plant, duplicating the Cazadero plant, or Station A, will be erected by the Portland Railway, Light & Power Co. on the Upper Clackamas River, two miles and a half above the Cazadero power-house. The new plant will have a capacity of 25,000 HP., equalling that of the Cazadero plant when working to its full capacity. Plans have been definitely made for the new power station, and work has been started at clearing land on both sides of the Clackamas River, and making surveys for the dam. The new plant will cost about $750,000 and will require about four years for completion. The dam to develop the power at the upper station will be higher than the one blocking the river at Cazadero. A fall of 125 ft. will be obtained, giving a tremendous rush through the turbine wheels. The dams will have the same capacity as the Cazadero reservoir, which, once filled, holds enough water to create 25,000 HP. for five hours without requiring the flow of the river. F. I. Fuller is Gen. Mgr.

EUREKA, CAL.—Contracts have been awarded by the Board of Directors of the Eureka Lighting Co. to LANGFORD BROS., local contractors, for erecting a new gas plant, at the foot of Whipple St., to cost in the neighborhood of $40,000. T. D. Perch is Supt.

OAKLAND, CAL.—The Southern Pacific Co. has purchased a block of land west of Fruitvale Ave. and near its main line tracks as the site for a power station and car barns for the local electric system that is to be installed. A. H. Babcock, San Francisco, is Electrical Engr.

TORONTO, ONT.—The Toronto Electric Light Co. has applied for authority to increase its capital from $1,000,000 to $4,000,000, and will erect two new sub-stations. A third sub-station is also contemplated. J. J. Wright, Toronto, is Mgr.

FORT WILLIAM, ONT.—Electric light improvements will be made here this year costing $26,000. Of this amount the following will be expended in supplies: Meters, $5,000; 4,000 lbs. No. 6 wire; 4,000 lbs. of No. 4 wire, and transformers costing $1,000 each, respectively, with 2,000 lbs. each of No. 10 and No. 12 wire each costing $540.

CALGARY, ALTA.—We are officially advised that Alexander & Budd have made application to the city for leave to introduce electricity for power and manufacturing purposes, to be generated by water from a point between Calgary and the Rocky Mountains. Permission has been granted for manufacturing purposes only; the city having its own power for its own purposes. H. E. Gillis is City Clerk.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—The New York Interstate Bridge Commission, in its recent report to the New York Legislature, reports that by constructing three bridges properly located, the desired direct communication between New York and New Jersey may be established. It is the opinion of the Commission that one bridge should be constructed across the Hudson River somewhere between 14th and 72d Sts. on the New York side, and that the other two bridges should be erected across Kill von Kull between Staten Island and New Jersey. These bridges should be considered strictly as public highways, and expense should be borne by the States of New York and New Jersey or by State of New Jersey and New York City. Estimated cost of constructing the first mentioned bridge proper and anchorages is between $25,000,000 and $35,000,000. It was also recommended that, as a large area would be needed for terminals, the bridge should include trans-continental trunk lines,

passenger and freight traffic, but should be primarily for vehicles, foot passengers and trolley lines. The estimated cost of two bridges across Kill von Kull is $1,000,000. McDougal Hawkes is Chn. Comn.

GOOD GROUND (L. I.), N. Y.—The contract for constructing steel highway bridge across Shinnecock Canal has been awarded to the CANTON BRIDGE CO., at $32,000. The contract includes only the bridge proper. The approaches are to be constructed by Southampton. Estimated cost, $8,000. The span will be 162 ft. long, with concrete roadway 21 ft. from water level, and top of truss beams will be 33 ft. high. The roadway will be 20 ft. wide, with a sidewalk of four feet additional.

HOBOKEN, N. J.—Bids are asked by the Board of Chosen Freeholders of Hudson County until 4 p. m., March 7, for constructing viaduct at 14th St., Hoboken. Walter O'Mara is Clk., Jersey City.

BALTIMORE, MD.—The city will construct a steel and stone bridge over Gwynn's Falls, at Edmondson Ave. Estimated cost, $65,000. B. F. Fendall is City Engr.

SHENANDOAH, VA.—A company has been organized with $4,000 capital stock to purchase and complete bridge at Shenandoah connecting Page and Rockingham Counties. H. H. Taylor is Pres.; E. L. Donevan, Vice-Pres.; I. Iseman, Secy., and G. M. Harnsberger, Treas.

PETERSBURG, VA.—Bids are asked until noon, March 11, by the Street Committee for erecting a steel bridge over the Appomattox River. R. D. Budd, City Engr. (Advertised, Engineering News.)

WILMINGTON, N. C.—Bids will soon be asked by the Commissioners of Hanover and Pender Counties for constructing steel bridge across North East Cape Fear River.

HALLISON, N. C.—It is reported that the Randolph & Cumberland R. R. Co. will construct steel bridge 300 ft. long at Deep River. C. S. Brewer, at Carthage, N. C., is Supt.

GREENVILLE, S. C.—Plans prepared by L. P. Slattery, City Engr., have been adopted for constructing proposed bridge across Reedy River at Main St. crossing. Bridge to be constructed of reinforced concrete, arch type, 54 ft. wide and total length, including approaches, about 420 ft.

YORKVILLE, S. C.—Bids are asked until March 20 for constructing steel wagon bridge of two spans, each 80 ft. in length, with capacity of 25,000 lbs. T. W. Boyd is County Superv.

ROME, GA.—It is reported that the Southern Ry. Co. is completing arrangements for constructing steel bridge across Etowah River to replace present covered bridge. Estimated cost, $25,000. W. H. Wells, at Washington, D. C., is Engr. Const.

HATTIESBURG, MISS.—A petition has been filed for erecting bridge over Gordon's Creek, at Court St. The city will erect five steel bridges at other streets. Richard C. Huston is City Engr.

NEW ORLEANS, LA.—Bids are asked by Charles R. Kennedy, Comptroller, until 1 p. m., April 29, for constructing viaduct over tracks of Southern Pacific Co. on the line of Newton St. in Algiers. W. J. Hardee is City Engr. (Advertised, Engineering News.)

FRANKLINTON, LA.—The Police Jury of this parish has let contract to the TEXAS BRIDGE CO., of Dallas, for erection of two steel bridges over Bogue Chitto River, to cost $5,500 each. One bridge will be located at Warnerton and one at Isabel.

CHILLICOTHE, OHIO.—Bids are asked by the County Commissioners until noon, March 18, for furnishing all necessary materials and construction of medium steel superstructure for highway bridge over "Old-town" Run on West Fall Road, at Frankfort, Ohio. Bridge to be 57 ft. 8 ins. extreme length, with 16 ft. clear roadway, with capacity of 125 lbs. per square foot of floor surface, with factor of safety of 4 with a concrete floor. Charles H. Pinto is County Audr.

Bids also are asked at the same time for constructing eight bridges.

DAYTON, OHIO.—We are officially advised that the CENTRAL STATES BRIDGE CO., Indianapolis, Ind., has been awarded contract for constructing bridge, oak floor, across Twin Creek, at $8,958. T. J. Kauffman is County Audr.

COSHOCTON, OHIO.—George J. Bock, County Surv., is preparing plans and specifications for constructing one canal swing bridge, 14 x 30 ft., with stone and concrete abutments, and one 2-span iron and steel bridge, 16 x 160 ft., with stone and concrete piers and abutments.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners until 11 a. m., March 9, for constructing concrete arch culvert, Strongsville Township, and steel bridge Bedford Township. A. B. Lea is County Surv. Julius C. Dorn is Clk. Bd. County Comrs.

RICHMOND, IND.—The Board of County Commissioners has awarded contract for constructing eight bridges and repairing one bridge to the PAN-AMERICAN BRIDGE CO., of New Castle, at $19,695. Bids were also submitted by the Central States Bridge Co., West Michigan and Bridge Sts., Indianapolis, Ind., $19,800, and by the Anderson Bridge Co., Anderson, Ind., $21,000.

INDIAN HARBOR, IND.—The Pennsylvania R. R. Co. has awarded contract to the HERMAN W. TAPP CONSTRUCTION CO., at about $50,000, for constructing bridge at this place. H. R. Leonard, at Philadelphia, Pa., is Engr. of Bridges.

EAST ST. LOUIS, ILL.—It is reported that the viaduct over Broadway is to be rebuilt. Estimated cost, $50,000. W. J. Crocken is City Engr.

TAYLORVILLE, ILL.—The Supervisors of Locust and South Fork Townships have decided to erect steel bridge across South Fork Creek.

VERMONT, ILL.—The Road Commissioners of Farmers and Bernadotte Townships have concluded to build a steel bridge over Tater Creek, near William Fleming's residence.

SIOUX CITY, IOWA.—We are officially advised that the UNION BRIDGE & CONSTRUCTION CO., 606 New Nelson Bldg., Kansas City, Mo., has been awarded contract for rebuilding substructure and superstructure of the north approach to the combination bridge across Missouri River at Sioux City.

MINNEAPOLIS, MINN.—It is reported that the Minneapolis, St. Paul & Sault Ste Marie Ry. Co. will construct new steel bridges across Flambeau and Chippewa Rivers. Alexander Amos, at Minneapolis, is Supt. Brdgs. and Bldgs.

LINCOLN, NEB.—The County Commissioners have awarded contract for constructing and repairing bridges during the present year to the NEBRASKA CONSTRUCTION CO.

BRUNSWICK, MO.—The construction of bridge across Grand River at this place is being planned.

ST. LOUIS, MO.—The West Side Terminal Railway Co., of St. Louis, has filed articles of incorporation. The company is chartered to construct a bridge across the Mississippi River three miles below the mouth of the Missouri River, to build a belt line through St. Louis County around the city from the bridge to Jefferson Barracks, and a second line through the heart of the city between Broadway and the river from Baden to Carondelet to connect the ends of the belt line. The company is capitalized at $1,000,000. Its temporary officers are: A. D. Neff, Pres.; C. F. Newton, Vice-Pres.; William C. Lamping, Secy. and Treas.; F. W. Roenigka and W. H. H. Miller, all of St. Louis, Directors. It is the intention of the company to complete the bridge while the belt line is being built, and it will take about two years to complete both. The company will also incorporate in Illinois and build a belt line around East St. Louis.

LAREDO, TEX.—It is reported that the Mexican National Construction Co. has appropriated $500,000 to construct bridge across the Rio Grande at Laredo, to replace old bridge that has been in use 25 years. It is said that the necessary bridge material is nearly all completed and work will commence in the near future. H. P. Webb, Jr., at Zacatecas, Mex., is Supt.

PAWNEE, OKLA.—The Commissioners Court of Pawnee County has agreed upon terms with the citizens of Ralston and Pawnee for construction of steel wagon bridge over Arkansas River at Ralston. The location has been decided upon and work will commence immediately.

LA GRANDE, ORE.—Bids are asked by the County Court until noon, March 7, for constructing 150-ft. span steel bridge over the Grande River, near Perry, Ore. Bridge to be constructed on concrete piers about 21 ft. in height, 29 ft. wide at bottom and 22 ft. wide at top, and with a batter on the front and each side of one foot in six feet. Bids to be submitted separately for constructing (1) bridge, (2) piers, and (3) bridge and piers. Bids also are asked at the same time for constructing 75-ft. span steel or wood combination bridge, without abutments or piers, across Grande River, near Perry, Ore. J. B. Gilham is County Clk.

FRESNO, CAL.—Bids are asked by the Board of County Supervisors until March 5 for constructing 100-ft. trestle bridge in Fresno County. W. O. Miles is County Clk.

SAN DIEGO, CAL.—Bids are asked by the Board of County Supervisors until March 7 for constructing bridges across San Dieguite, Carlsbad and La Costa Creeks. William H. Francis is County Clk.

SANTA ANA, CAL.—The Los Angeles "Times" states that "in a recent condemnation suit of the Los Angeles Inter-Urban Railway Co. against Geo. Hagar, of Balboa, George E. Pillsbury, Ch. Engr. for the Huntington interests, said that it was the intention of his company at some time to bridge the channel at Newport Bay and build a road into Santa Ana. He stated that right-of-way to the point of the strip of sand below Balboa would have to be in the company's hands before a permit to bridge the mouth of the bay could be obtained from the Government."

CENTERVILLE, CAL.—Bids are asked by H. T. Batchelder, Clk. Bd. of Supervs., until 2 p. m., March 2, for constructing bridge across Butte Creek, at Centerville.

NAPA, CAL.—Bids are asked by the Board of Supervisors until 10 a. m., March 12, for constructing stone masonry arch bridge across Capell Creek, on main county road from Napa to Berryessa Valley.

ST. GEORGE, UTAH.—It has been decided to construct bridge across Virgin River, between this city and Washington field. Estimated cost, $5,000.

BURNS, ONT.—The Morington Township Council has instructed G. L. Griffith, C. E., of Millbank, to prepare plans for constructing steel and concrete bridge over the Milverton River.

EAST ZORRA (Hickson post-office), ONT.—Bids are asked until 3 p. m., March 11, for constructing two steel bridges with quarry stone or concrete abutments, in East Zorra Township. Bridges to have concrete floors with channel guards. One truss span 70 ft. in length and one beam span 24 ft. James Anderson is Clk.

DAUPHIN, MAN.—Bids are asked by J. A. Cordy, Clk., until noon, March 20, for construction of two 60-ft. steel span bridges and one wooden 60-ft. span Howe truss bridge.

SHELLMOUTH, MAN.—Bids are asked by Fred Gelinas, Secy. Pub. Wks., Ottawa, until March 19, for construction of steel superstructure for bridge over Assiniboine River at Shellmouth, Man. J. G. Sing is Resident Engr., Confederation Life Bldg., Toronto.

NEW WESTMINSTER, B. C.—Bids are asked until March 2 for repairing Huntley Bridge across Nicomecki River. E. M. Carncross is Clk. Municipal Council.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is reported that a new armory building will be erected by the National Guard to cost $250,000.

BOSTON, MASS.—Fehmer & Page, Archs., 87 Milk St., have plans for a steel and brick building, to contain 14 apartments, for Charles A Evans, 33 Equitable Bldg. Estimated cost, $250,000.

TORRINGTON, CONN.—The Torrington Electric Light Co. has decided to increase its capital stock from $200,000 to $300,000 and to erect an office building on Water St., opposite the post-office. C. E. Smith is Mgr.

NEW YORK, N. Y.—We are officially advised that CHARLES WILLE, 45 East 42d St., has contract, at $237,000, for rebuilding of the Queens County Court-house at Long Island City. F. W. Carlin Construction Co., Kent St., Brooklyn, was the only other bidder, at $279,000.

Negotiations are now in progress to construct a New York, New Haven & Hartford R. R. passenger station on a site bounded by Park and Lexington Aves., and 32d and 34th Sts. Edward Gagel, New Haven, Conn., is Ch. Engr.

Bradford L. Gulbert, as architect for the trustees of the Westminster Presbyterian Church, at 206 to 214 West 23d St., has filed new additional plans for remodeling of edifice which was projected last year. According to plans, 33 ft. of the building will be taken down in front to permit the addition of a 10-story dormitory building, which will occupy the entire 100 ft. frontage of the site, and have a depth of 33 ft. The ground floor of the addition will contain a chapel, and the basement will be fitted for social halls for the church. The main church is to be renovated and redecorated. The improvements are to cost $175,000.

NEW YORK, N. Y.—We are officially advised that the OTIS ELEVATOR CO., 17 Battery Pl., has been awarded contract to install 15 electric passenger elevators in the Singer Sewing Machine Co.'s Building, now being erected on Broadway, between Liberty and Cortlandt Sts. One elevator will run 546 ft., to the 41st story, three to the 35th, and the others to the 13th. The cars will have double safeties, clamping the guides, as well as wire safeties.

Plans have been filed with the Building Department for a 6-story brick flat and store building, to be erected by the G. A. Fisher Co., of New Rochelle, at the corner of Broadway and 144th St. Estimated cost, $195,000. G. A. Pelham, 503 Fifth Ave., is Arch.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 11, by C. B. J. Snyder, Supt. of School Bldgs., for erecting five portable school houses on the premises of Public School No. 12, Overing St., Denson and Frisby Aves., Westchester, and Public School No. 15, Westchester Ave., near Classon Point Road, Unionport, Boro. of the Bronx; for general construction of additions to and alterations in Public School No. 96, on the east side of Ave. A, between East 81st and 82d Sts., Boro. of Manhattan; for installing heating and ventilating apparatus for addition to and alterations in Public School No. 135, on the corner of 51st St. and First Ave., Boro. of Manhattan.

MAYVILLE, N. Y.—The contract for constructing county court-house at Mayville has been awarded to SHELBERG, LINDQUIST & BAILEY, of Jamestown, N. Y., at $124,101. W. J. Beardsley, 42 Market St., Poughkeepsie, N. Y., is Arch.

ATLANTIC CITY, N. J.—Milligan & Webber, 520 Walnut St., Philadelphia, Pa., have been commissioned to prepare plans for a 10-story fireproof hotel, 350 x 650 ft., to be erected on the Boardwalk at Connecticut and Massachusetts Aves., and cost about $600,000. It will contain 700 rooms. A convention hall and stores will be in the basement.

NEWARK, N. J.—It is reported that the Board of School Estimate has decided to recommend to the Common Council to appropriate $1,165,000 for the following schools: New High School, $400,000; addition to Belmont Ave., 21 rooms, $105,000; addition to Warren St., twelve rooms, assembly room and new heating system, $125,000; addition to Bergen St., 16 rooms and new heating system, $100,000; addition to Burnet St., 18 rooms, $100,000; addition to Hawthorne Ave., 14 rooms, $90,000; new school, Richelieu Terrace, twelve rooms and assembly room, $80,000; for new sites and playgrounds, $133,500.

PHILADELPHIA, PA.—Plans have been prepared and estimates are being received by Milligan & Webber, 520 Walnut St., for erection of an 8-story brick and terra cotta and reinforced concrete apartment house, to be erected at Seventh and Locust Sts., for Taylor Middleton, at a cost of $150,000.

It is reported that Watson & Huckel, 1211 Walnut St., have completed plans for a garage to be erected at 216 North Broad St., for the Keystone Motor Car Co., the cost including site to be about $300,000. Bids for the construction are being received.

SCRANTON, PA.—William Kelley, of the firm of Casey & Kelley, writes us that he will construct a 6-story apartment house for himself on Adams Ave. It will be fireproof, and constructed of stone and brick. Lewis R. Kaufman, 160 Fifth Ave., New York, N. Y., is Arch. Noted in issue of Feb. 7.

PITTSBURG, PA.—Plans for the Allegheny County Soldiers' Memorial Hall will be furnished by Palmer & Hornbostel, 63 William St., New York, their plans having been approved by Warren M. Laird, University of Pennsylvania, Philadelphia, Consulting Architect, and accepted by the County Commissioners. The building will face the entrance to Schenley Park, and will cost $1,000,000.

POTTSVILLE, PA.—Plans are being made to erect a Y. M. C. A. building in Pottsville, to cost $110,000. It is reported that work on the structure will be started in the spring.

BALTIMORE, MD.—It is reported that Henry E. Cook, 537 East M[illegible] St., will erect 24 3-story brick dw[illegible] on Calvert St., between 26th and 27[illegible] Sts., to cost about $170,000. Electric w[illegible] and fixtures, sanitary plumbing and he[illegible] systems will be installed.

WASHINGTON, D. C.—C[illegible] John Stephen Sewell, Engr. Corps, U. S. [illegible] Officer in Charge of construction at the [illegible] S. Soldiers' Home, Washington, has aw[illegible] the following contracts in connection [illegible] construction work at that institution [illegible] construction of the new mess hall and dorm[illegible] to CRAMP & CO., Commonwealth Bldg., [illegible]adelphia, at $164,000, and 30 cts. per ft. [illegible] setting extra granite. Construction of [illegible] plant, to BRENNAN CONSTRUCTION [illegible] 3056 K St. N. W., Washington, D. C., [illegible] $73,000; concrete foundations, $7.50 per [illegible]; concrete foundations of same grade as [illegible] forced concrete, $9 per cu. yd. Installa[illegible] of five elevators at mess hall, to the O[illegible] ELEVATOR CO., 17 Battery Pl., New Y[illegible] N. Y., at $23,050.

Bids were opened Feb. 23, [illegible] the office of the Commissioners of the Dis[illegible] of Columbia, for the construction of [illegible] hospital for tuberculosis patients in the [illegible]ict, as follows: Richardson & Burges[illegible] Colorado Bldg., Washington, $109,90[illegible] Thompson-Starrett Co., Commercial [illegible]onal Bank Bldg., Washington, $111,50[illegible] Appleton & Burrell, 1204 Chancellor St., [illegible]hiladelphia, $106,557, $105,257; Pavarini & [illegible]yne, Munsey Bldg., Washington, $9[illegible] $88,000; Brennan Construction Co., 3056 [illegible] St., N. W., Washington, $110,972, $109,97[illegible] Boyer & Smith, Washington, $115,000, $111,000; Engineering Contracting Co., Baltimore, $109,191, $108,191.

Plans are being prepared by B. S. Simmons, Arch., 931 F St., N. W., for a hotel, to be built at Pennsylvania Ave. and 14th St. N. W. for the Randolph Hotel Co. The structure will have twelve stories and will cost $400,000.

WASHINGTON, D. C.—Bids are asked until March 16, by Elliott Woods, Supt. U. S. Capitol Bldg. & Ground, for furnishing w.-i. pipe, pipe bends, c.-i. fittings and gate valves, for hot water heating work, House of Representatives Office Building, Washington. (Advertised, Engineering News.)

BALTIMORE, MD.—Henry E. Cook, of Maplewood, Md., will erect 24 3-story dwellings, 20 x 60 ft., on Calvert St., near 26th St., Baltimore. Brick and stone, baths, toilets, skylights, plate glass, electric and gas fixtures, etc., will be used. Estimated cost, $170,000.

RALEIGH, N. C.—John C. Drewry has introduced a bill in the Legislature appropriating $500,000 for additions and alterations to the Capitol Building. Plans for this improvement, which were recommended by the Legislative Committee two years ago, were prepared by Frank P. Milburn & Co., Washington, D. C. The improvements contemplate adding a wing to each end of the present building, installing heating plant and elevators, and putting a new dome on the present building.

SAVANNAH, GA.—An opera house and office building will be erected here, at a cost of about $165,000. Felix Kohler will be at the head of the company which is to be organized for erection of building. W. R. Gunn, of Atlanta, is Arch.

ATLANTA, GA.—The Atlanta Auditorium-Armory Co., recently reported incorporated to build auditorium and armory, will erect a fireproof building, 200 x 300 ft., to cost $200,000. The architect has not been selected.

The First Church of Christian Scientists of this city contemplates erecting a new building, to cost $500,000. Mrs. Livingston Mims is interested.

BIRMINGHAM, ALA.—It is reported that the Wimberly & Thomas Hardware Co. is arranging for erection of 4-story brick warehouse, 250 x 140 ft., to cost $165,000.

SHREVEPORT, LA.—HUGH McLENNAN, 1241 First National Bank Bldg., Chicago, has the contract for constructing an 8-story office building, to cost $225,000, for the Continental Bank & Trust Co. The architects are Perry, Bridge & Snyder, of Shreveport.

NEW ORLEANS, LA.—It has been announced that a passenger station is to be built here for the Rock Island and 'Frisco systems, at Canal and Basin Sts. B. F. Yoakum is Chn. Executive Com., 71 Broadway, New York, N. Y.; J. F. Hinckley is Ch. Engr., St. Louis & San Francisco R. R. Co., St. Louis, Mo.

We are officially advised that A. B. STANNARD, St. James Bldg., New York, N. Y., has secured the contract to erect the Court House, at $1,024,000. The contract includes steam heat, plumbing, etc. Other bids received are reported to have been as follows: Miles & Bradt, $1,061,102; C. Everett Clark, $1,078,646; T. Lovell & Sons, $1,144,114; Geo. J. Glover, $1,162,400; Wells Bros. Co., $1,106,041.

LAUREL, MISS.—P. J. Krause, Meridian, Miss., has prepared plans for proposed court-house at Laurel, which have been accepted. Estimated cost, $120,000.

NASHVILLE, TENN.—It is reported that N. D. Overall will erect an apartment house to cost about $150,000.

MEMPHIS, TENN.—Eames & Young, Archs., Chestnut and Seventh Sts., St. Louis, Mo., are preparing plans for an addition to hotel for the Peabody Hotel Co., Memphis. Estimated cost, $200,000.

CLEVELAND, OHIO.—It is reported that the City Hall Commission has instructed Milton J. Dyer, Cuyahoga Bldg., to prepare specifications for the foundation for the proposed new city hall, in anticipation of the passage of the ordinance now before the Council, providing for a bond issue of $250,000 for the work.

SPRINGFIELD, OHIO.—W. K. Shilling, Bushnell Bldg., is preparing plans for a 7-story store and office building, 82 x 156 ft., for John Chapman. The structure will be of stone and terra cotta, and will cost $125,000.

CINCINNATI, OHIO.—An ordinance is reported to have been passed for the issuance of bonds amounting to $204,000 for erection of a hospital. Frank L. Pfaff, President of Council.

DAYTON, OHIO.—W. E. Russ, Arch., Conover Bldg., has been retained to prepare plans for a memorial building, to be built here. Albert Pretzinger, Eighth Floor, Reibold Bldg., has been retained as Consult. Arch. An appropriation of $250,000 has been made for buildings and site. Plans will be completed in about six months.

CLEVELAND, OHIO.—F. Melville Lewis, Pres. Hotel Life Co., is promoting a plan to construct a hotel to cost $1,000,000. It is to erect a structure facing the Mall, looking east, and is between the post-office and the court-house on property just north of that owned by the city.

CARTHAGE, ILL.—Bids are asked until April 9 for construction of court-house, to cost about $115,000. J. E. Mills is Arch.; James W. Westfall is County Clerk.

SPRINGFIELD, ILL.—It is reported that the Board of Regents of the State Normal School has approved the plans for three normal schools which are to be constructed this year, at a cost, including lighting and heating plants, of $250,000. A building committee has been appointed, of which M. B. Clark is a member, to have charge of this work.

CHICAGO, ILL.—Frank Schoenfeldt, 1755 West 12th St., is preparing plans and will take bids on a factory to be built on Jackson Boulevard, near Halsted St. It will be 8-story, 73 × 125 ft., and will cost $120,000.

Andrew Sandegren, Arch., 164 Dearborn St., is preparing plans for a store, office and theater building, to be erected at 59th and Halsted Sts. The building will have three stories, and will be 125 × 135 ft., built of press brick, with stone trimmings, tar and gravel roof, oak finish, maple floors, hard plaster, marble, mosaic and nickel plumbing. Estimated cost, $125,000.

It is reported that the Aldermen on the Council Finance Committee is considering the erection of a municipal contagious disease hospital, to consist of seven brick and steel fireproof buildings, and to cost about $227,000.

CHICAGO, ILL.—D. H. Perkins, Arch., 720 Tribune Bldg., writes us that "public advertisement for bids for constructing the Cornell School will be made when the Board of Education is ready to let contracts, which may not be for several months."

MILWAUKEE, WIS.—It is reported that the Auditorium Committee has decided to ask architects throughout the country to submit competitive plans until May 1, for an auditorium building, the cost not to exceed $450,000.

MILWAUKEE, WIS.—It is reported Kirchoff & Rose, 201 Grand Ave., have prepared plans for a 14-story office building, which is to be erected by the Schlitz Brewing Co. on Grand Ave., at a cost of about $1,500,000. The building is to contain the Majestic Theater.

LA CROSSE, WIS.—Van Ryn & DeGelleke, 211 Grand Ave., Milwaukee, have completed plans for a $220,000 normal school to be erected at LaCrosse by the State Board of Normal School Regents, Madison. The legislature will be asked to appropriate the necessary funds.

SIOUX CITY, IOWA.—It is reported that plans are being prepared for alterations to the Garretson and Mondamin Hotel, New Grand Theater Bldg. Cost, $500,000.

MINNEAPOLIS, MINN.—Plans are being prepared by Long & Long, Archs., 41 Groveland Terrace, Minneapolis, for a building to be built at Fourth St. and Nicollet Ave. for Maurice Rothschild, 315 Nicollet Ave.

WICHITA, KAN.—Charles H. Smyth has purchased site here, and will erect a 6-story business building. Estimated cost, $125,000.

LINCOLN, NEB.—Arrangements are being made to erect a 7-story addition to the Lincoln Hotel. Estimated cost, $125,000. The building will contain ice plant, electric light and refrigerator plant.

ST. LOUIS, MO.—Mulligan & Wray, Archs., Chemical Bldg., are preparing plans for a 5-story addition to insane asylum for the Board of Public Improvements, W. B. Dryden, Secy., City Hall. The building will have two wings, 469 × 212 ft., and will be of brick and stone construction. Estimated cost, $600,000.

DENISON, TEX.—H. T. Phelps, San Antonio, Tex., is preparing plans for a 2-story union station, to be erected at Denison, for the Missouri, Kansas & Texas Ry. system. Construction will be of brick and stone, with iron and steel work, plate glass, hard plaster, marble and tile work, combination lighting fixtures and nickel plumbing. Cost, $300,000.

SEATTLE, WASH.—The Washington State Legislature has appropriated $600,000 to provide three buildings for the University of Washington, Seattle, and $400,000 for the Washington State Exhibit, at the Alaska-Yukon-Pacific Exposition, to be held here in 1909.

PORTLAND, ORE.—A 10-story hotel, to cost $350,000, and which will be erected by the owners of the Hotel Portland, and to be known as the Hotel Portland Annex, will be built in the near future. The annex will be erected across the street from the Portland, and the two structures will be connected by an archway. Actual construction will be begun within two months.

SAN JOSE, CAL.—Architects have been selected to prepare plans for schools, as follows: For high school, S. F. Allen, of Pasadena, the building to cost about $175,000; Grant School, Wolf & McKenzie, of San Jose; Lowell School, Binder & Schumacher, San Jose; Longfellow School, G. W. Page, San Jose; Horace Mann School, Stone & Smith, of Oakland and San Jose. Alexander Sherriffs is City Supt. of Schools.

SACRAMENTO, CAL.—The Senate Committee on Finance is reported to have voted favorably on the following appropriations: $250,000 for the construction of an agricultural building at the University of California; $133,000 to the California Polytechnic School, and $350,000 for reconstructing the State Normal School, at San Jose.

SAN FRANCISCO, CAL.—Ground has been broken for James L. Flood's and James E. Walsh's new building, which is to be constructed on the old Grand Opera House site on Mission St., between Third and Fourth Sts. This building will have five stories and basement, and will cover a lot 110 × 275 ft. It will have six elevators. The building is being specially constructed to suit the requirements of the Heyman-Weil Co., which has taken a lease of the entire structure for a term of 15 years, at a rental of about $650,000. Estimated cost, $400,000. Albert Pissis is Arch.; MAHONEY BROS. are contractors.

An application has been filed with the Board of Works by M. A. Gunst for a permit to erect an 8-story Class A brick office building on the corner of Geary and Powell Sts., at a cost of $214,000.

Bids are asked by T. Patterson Ross and A. W. Ross for the construction of a 10-story Class A structure, to be erected at the corner of Pine and Battery Sts. It will be fireproof, and will cost about $150,000.

Application has been made to the Board of Works by T. H. B. Varney and J. Green for a permit to construct a 2-story Class A theater building in Valencia St., between 13th and 14th Sts., at a cost of $103,000.

SAN FRANCISCO, CAL.—The Levi Strauss Realty Co. has applied to the Board of Works for permits to erect two 5-story Class A buildings, one at the corner of Battery and Pine Sts., to cost $230,000, and the other in Battery St., near Pine, to cost $180,000.

On Feb. 14 the Santa Marina Co. applied to the Board of Works for a permit to erect an 8-story reinforced concrete office building on the corner of California and Drumm Sts., at a cost of $430,000.

Wright, Rushforth & Cahill have completed the plans for a substantial 6-story and basement building, to be erected on the corner of Davis and Pacific Sts., for James Otis, Trustee. The structure will have three frontages, 120 ft. on Davis St., 107.6 on Pacific St. and 137.6 on Clark St. The building will be of unusually heavy construction, with floors capable of carrying 500 lbs. to the square foot. The interior finish, doors, frames and sash will be of metal, and metal lathing will be used throughout.

OAKLAND, CAL.—Competitive plans are soon to be asked for the hotel which it is proposed erecting at a cost of about $2,000,000. The Bankers' Syndicate is reported interested. Walter J. Matthews, 969 Broadway, is Superv. Arch.

OAKLAND, CAL.—It is reported that plans are being prepared for a 5-story structure at San Pablo Ave. and 17th St., to cost $170,000. The building will be built by W. C. Brett.

LOS ANGELES, CAL.—Work on the excavation of the Majestic Theater, to be erected by the Hamburger Realty & Trust Co., on the lot adjoining the new Hamburger store, will be begun in a few days. The new building will be eight stories high, and will be constructed of reinforced concrete, and will cost $300,000.

LOS ANGELES, CAL.—It is reported that the Shriners propose erecting at West Jefferson and Royal Sts., a $150,000 building. The structure will contain a theater.

MONTREAL, QUE.—Bids are being received by the Eastern Townships Bank for erection of a 10-story bank building on St. James St. Cox & Ames, Archs., have prepared plans. The building will be fireproof, and will contain 150 offices. It will be completed May 1, 1908.

PETERBORO, ONT.—GEORGE H. PROCTOR, Sarnia, Ont., has been awarded the contract for constructing the Peterboro armories for $125,190. The building will be of brick and stone, and will be 252 × 169 ft.

PORT ARTHUR, ONT.—Mackenzie & Mann, railroad contractors, Toronto, Ont., are planning to erect a hotel here in connection with the Canadian Northern Ry., to cost $250,000. T. H. Graham, Port Arthur, is Superv. Bridges and Bldgs.

The Canadian Northern Ry. Co. is having plans prepared for erection of a freight shed on the water front. M. H. McLeod, Ch. Engr., Winnipeg, Man.

WINNIPEG, MAN.—Plans are being prepared at the Department of Public Works, Ottawa, Ont., for a North End post-office, to be erected here this summer at a cost of $100,000. It will be 85 × 45 ft., 3-story, and built of stone and brick. Fred. Gelinas, is Secy. of the Dept. of Public Works, Ottawa, Ont.

A. & W. Melville, Archs., Union Bank Bldgs., are preparing plans for an apartment block to cost $300,000, which will be erected at Broadway and Hargrave Sts. It will contain 100 suites, will be built of pressed brick and stone, with 4 stories, 130 × 197 ft. It will be fitted throughout with Marshall & Stearns patent wall beds.

The Department of Public Works, Ottawa, is preparing plans for a new examining warehouse to be erected on Rorie St. Cost, $150,000. Fred. Gelinas is Secy. of the Dept. of Public Works, Ottawa.

J. H. Woods, dealer in builders' and contractors' supplies, Ottawa, has purchased a site here on which he will erect a 7-story, 70 × 210 ft., brick and steel warehouse.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NORTH DANA, MASS.—It is reported that the city water supply will be improved.

ALBANY, N. Y.—Bids were received on Feb. 18 by the Board of Contract and Supply for furnishing centrifugal pumps and engines at filtration plant pumping station, as follows: (a) One set, consisting of a compound, condensing, driving engine, and centrifugal pump, having capacity of 16,000,000 gallons per 24 hours, with a total static head of 18 ft.; (b) two sets, each consisting of compound, condensing, driving engine and centrifugal pump having a capacity of 30,000,000 gallons per 24 hours, with a total static head of nine feet; (c) two sets, each consisting of double-cylinder, simple, non-condensing, driving engine and centrifugal pump, having capacity of 7,000 gallons per minute, with total dynamic head of 35 ft; (d) two independent jet condensers. Blockun & Baldwin, New York, (a) $4,335; (b) $9,882; (c) $5,432; (d) $800. Dolier & Co., New York, (a) $4,100; (b) $9,900; (c) $5,750; (d) $575. Camden Iron Works, Camden, N. J., (a) $4,090; (b) $9,370; (c) $2,330; (d) $825. Walter Mellus is City Engr.

PATCHOGUE (L. I.), N. Y.—It is reported that the Water Co. will improve its plant. Estimated cost, $25,000. David A. Boody is Pres.

PHILADELPHIA, PA.—We are officially advised that the following bids were received Feb. 5 by the Department of Public Works for installing boiler equipment at Lardner's Point Pumping Station No. 3, for (a) eight boilers, erected complete with stokers, piping, feed pumps and heaters, flue connections and appurtenances, (b) economizers, by-pass flues and fans, including all appurtenances, (c1) concrete and brick wall excavating, (c2) earth excavation, (c3) concrete, (c4) earth fill, (c5) 6-in. granolithic pavement, (c6) steel and iron, (c7) red brick masonry, (c8) laying fire brick, and (d) foundations: F. J. Boaz, 14 South Broad St., Philadelphia, (c1) to (d) inclusive, $13,031; M. & J. B. McHugh, 607 Witherspoon Bldg., Philadelphia, (c1) to (d) inclusive, $10,435; Edward Fog & Son, 2666 Richmond St., Philadelphia, (c1) to (d) inclusive, $8,434; Franklin Boiler Works Co., Bourse Station, Philadelphia, (a) Roney stoker, $78,300; Wetzel stoker, $78,800; Jones stoker, $81,260; The Maxim Co., 130 Fulton St., New York, Maxim boiler, Wetzel stoker, $70,000, Maxim boiler, Roney stoker, $76,000; The Babcock & Wilcox Co., 1110 North American Bldg., Philadelphia, (a) Sterling boiler with (1) Roney, (2) Wetzel, (3) Murphy and (4) Jones stoker, (1) $83,183, (2) $84,105, (3) $84,473, (4) $87,443; Edgemoor Iron Co., Edgemoor, Del., (a) Edgemoor boiler, Wetzel stoker, $69,400, (c1) to (d) inclusive, $12,023, (a) Edgemoor boiler with (1) Roney, (2) Murphy, (3) Jones stoker—(1) $70,350, (2) $73,400, (3) $73,200; B. F. Sturtevant Co., 135 North Third St., Philadelphia, (b) $19,426 and $17,500; James H. Stitzer, Jr., 917 Commonwealth Bldg., Philadelphia, (c1) to (d) inclusive, $13,063; Atlas Engine Works, Indianapolis, Ind., (a) Atlas boiler with (1) Wetzel, (2) Roney, (3) Jones stoker—(1) $64,847, (2) $65,347, (3) $68,697, (b) $17,247, (c1) to (d) inclusive, $12,093; Heine Safety Boiler Co., Pennsylvania Bldg., Philadelphia, (a) Heine boiler with (1) Murphy, (2) Roney, (3) Wetzel stoker—(1) $77,337, (2) $76,229, (3) $77,346, (c1) to (d) inclusive, $10,540; The Green Fuel Economizer Co., Matteawan, N. Y., (b) $17,270, and E. Keeler Co., Williamsport, Pa., (a) Keeler boiler with (1) Wetzel, (2) Roney, (3) Jones, (4) Murphy stoker—(1) $72,618, (2) $72,963, (3) $76,478, (4) $77, 213, (b) $20,394, and (c1) to (d) inclusive, $12,651.

WASHINGTON, D. C.—Specifications for constructing a 100,000-gallon elevated steel water tank and tower at Naval Hospital, New Fort Lyon, Bent County, Colo., are on file at office of Engineering News, New York. Bids are asked until 11 a. m., March 30. (Advertised, Engineering News.)

RICHMOND, VA.—Charles E. Bolling, Supt. Water Dept., has completed estimates for work during the present year, and it has been adopted by the Water Committee and forwarded to Finance Committee for consideration. The estimate totals $361,166, of which $178,891 is for additions to the pumping machinery, installation of turbines and construction of mains from the new pump house to the reservoir, and $72,513 for extensions of mains and for better fire protection.

BIRMINGHAM, ALA.—The Water-Powers on Locust Fork of the Warrior River, near Birmingham, have been bought and options secured on about twelve miles of Warrior River, with the view to develop and furnish the city of Birmingham 25,000 HP., and to supply the city of Birmingham with an abundance of water by a gravity canal for all industrial and domestic purposes. Two surveys have been made which prove both of these developments to be practical and desirable. Parties interested can secure information from E. J. McCrossin, Woodward Bldg., Birmingham, and John L. Ray, Albertville, Ala.

BIRMINGHAM, ALA.—E. B. FITTS & CO., 160 Richardson St., Atlanta, Ga., has been awarded contract for constructing pumping station at this city by Alabama City, Gadsden & Attala Ry. Co., at $10,000. C. J. Zell, at Gadsden, Ala., is Supt. and Elect. Engr.

BUNKIE, LA.—Bids are asked by J. M. Watson, Mayor, until March 1 for drilling one 6-in. water well to a depth of 500 to 600 ft.

CROWLEY, LA.—Bids are asked until April 2 for furnishing material and extending water-works. The work consists approximately of 20,000 lin. ft. of 6-in. mains.

IRONTON, OHIO.—Bids are asked until March 1 for furnishing 500 lengths of 6-in. and 150 lengths of 4-in. c.-i. water pipe. D. H. Clarke is Supt.

PAINESVILLE, OHIO.—Bids are asked by the Board of Public Service until March 4 for furnishing 577 or more water meters ranging in size from ⅝ to 6 in. H. P. Cummings is City Engr.

FT. WAYNE, IND.—The contract for relining reservoir has been awarded to HOEFFER & CO., of Chicago, Ill. WILLIAM B. HOUGH & CO., of Chicago, Ill., have been awarded contract for structural work. F. Randall is City Engr.

SOUTH BEND, IND.—The PLATT IRON WORKS, Dayton, Ohio, has been awarded contract for installing 2,500,000-gallon duplex power pump, at $4,150 on foundations.

It is reported that a high duty pumping engine may be purchased during the present year. Alonzo J. Hammond is City Engr.

BELVIDERE, ILL.—It is reported that the city contemplates constructing a water main on Main St. William Marine is City Engr.

ROCK ISLAND, ILL.—Bids are asked until 5 p. m., March 4, for furnishing and installing battery of boilers not less than 150-HP. H. S. Schaffer is City Clk.

ALMA CENTER, WIS.—Bids are asked by J. T. Duxbury, Village Clk., until 7.30 p. m., March 22, for furnishing and laying about 6,000 ft. of 4, 6, 8-in. cast-iron pipe with necessary specials, twelve hydrants and eight 4, 6 and 8-in. valves. Bids also are asked for 300-gallon power pump and 16-HP. gasoline engine, also a 40,000-gallon tank to be erected upon 30-ft. steel or stone tower, also 8-in. well, 400 ft. deep. W. G. Kirchoffer, at Madison, Wis., is Engr.

MILWAUKEE, WIS.—Bids are asked by the Commissioners of Public Works until 10.30 a. m., March 2, for furnishing 400 tons of 8-in., 325 tons of 12-in. and 225 tons of 16-in. c.-i. water pipe to the Water Department. Peter J. Koehler is Deputy Comptroller. Charles G. Poetsch is City Engr.

Bids also are asked at the same time for furnishing 550 tons of 6-in. c.-i. water pipe.

SPARTA, WIS.—We are officially advised that bids were received Feb. 19 by J. W. Leverich, Chn. of Com., Sparta, Wis., for constructing water system for Monroe County Asylum for the Insane, consisting of (AA) one 50,000-gallon steel tank on 90-ft. steel tower, and (BB) deep well pump, pump house building, 10-HP. electric motor, c.-i. pipe, etc. The LANGSTADT-MEYERS CONSTRUCTION & SUPPLY CO., 767 College Ave., Appleton, Wis., was successful bidder for contract (BB) at $3,771, and the CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., was awarded contract (AA) at $3,940.

WEST SALEM, WIS.—We are officially advised that bids will be asked by the city about March 21 for constructing water-works system. The system will include concrete reservoir, pipe line, gasoline engine and pumps and brick work. O. Claussen, at St. Paul, Minn., is Consult. Engr.

MINNEAPOLIS, MINN.—The Water-Works Committee of the City Council has ordered water mains constructed costing more than $50,000. The mains and their expense are divided among the wards as follows: Second, 1,692 ft., $5,397; third, 3,540 ft., $5,735; fourth, 2,220 ft., $3,808; sixth, 1,224 ft., $4,651; eighth, 624 ft., $1,747; ninth, 1,416 ft., $3,115; tenth, 672 ft., $1,445; eleventh, 1,204 ft., $1,205; twelfth, 9,468 ft., $15,338; 13th, 2,604 ft., $4,517; and four other extensions whose length and cost are as yet unestimated. Andrew Rinker is City Engr.

OSWEGO, KAN.—We are officially advised that bids have been received for extending and improving the water-works system from the following: W. J. Longston, Muskogee, Ind. T., $17,500; T. C. Brooks & Sons, Jackson, Mich., $16,400; W. W. Cook & Son, Muskogee, Ind. T., $15,874, and N. S. Sherman Machinery Co., Independence, Kan., $15,813. M. A. Earl & Co., of Muskogee, Ind. T., are Engrs.

FAYETTE, WYO.—It is reported that the Fremont Lake Irrigation Co. has been incorporated to construct irrigation canal in Fremont Lake District of Western Wyoming. Frederick C. Fisher, of Fayette, Wyo., is promoter, and has interested G. R. De Nise and W. U. S. Parsons, of Denver, Colo.

CODY, WYO.—The Secretary of the Interior has awarded to the NEW JERSEY FOUNDRY & MACHINE CO., 9 Murray St., New York, N. Y., contract for furnishing and installing high pressure gates at the Shoshone and Pathfinder dams, Shoshone and North Platte Irrigation Projects, Wyo., for $123,500.

HUNTLEY, MONT.—Bids are asked by the U. S. Reclamation Service until 2 p. m., April 17, for constructing structures on Garland Canal and laterals near Ralston, Shoshone Project, Wyoming. The work involves about 47,000 cu. yds. of grading, 5,000 cu. yds. of concrete, placing 348,000 lbs. of steel reinforcing bars and other incidental work. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

EL PASO, TEX.—It is reported that the International Water Co. has decided to sink additional wells, extend water mains and improve pumping plant. Estimated cost, $125,000.

FORT WORTH, TEX.—Bids are asked until 2 p. m., March 15, by the Water-Works Committee, C. G. Harrold, Chn., for two 3,000,000-gallon high-duty pumps. H. L. Calhoun, Supt. W.-W. (Advertised, Engineering News.)

SOUTH McALESTER, IND. T.—Bids are asked by the Board of Water and Sewer Comn. until March 18 for constructing water-works and sewer extensions. Estimated cost, $25,000. George Wilcox is City Engr.

SAPULPA, IND. T.—It is reported that the City Council has decided to spend about $40,000 improving water-works.

FLORENCE, COLO.—It is reported that work will soon commence on constructing the Eight-Mile reservoir by the recently formed irrigation company, which includes C. C. Hamlin, of Cripple Creek, and J. Q. MacDonald, of Florence. Estimated cost of dam, $900,000.

GRAND JUNCTION, COLO.—The City Council has awarded contract for construction of mountain water pipe-line for the city to the DOUGLAS-MITCHELL ENGINEER & BUILDING CO., of Denver, at $263,000. The contract calls for a line of wire-wound and continuous 22-in. stave pipe. The water will be piped from Kannan Creek to two reservoirs south of this city on Orchard Mesa. The line will be 20 miles long.

AZTEC, N. MEX.—The New Eden Land & Ditch Co. is raising funds for constructing an irrigating system to cover 30,000 acres. The engineering difficulties are very great, and have not yet been successfully solved. Blair Burwell, at Durango, Colo., is Engr.

LOS ANGELES, CAL.—Brooks and Barbour have sold to F. H. Edwards and associates water plant of the Paso de Bartolo Water Co. for $75,000. The new owners will extend the plant to Montebello Heights.

SALT LAKE CITY, UTAH.—The State of Utah, through the State Engineer's office and the State Board of Land Commissioners, will construct a storage reservoir with capacity of 15,000 acre ft., near Asays, Garfield County. A system of diverging canals and distributing laterals will also be constructed. The work will be done by contract, and bids will be asked for during the next six months. Estimated cost, $75,000.

Authority has been granted the Supervising Engineer of the Strawberry Valley Project, Utah, to obtain proposals for furnishing machinery required for power plant to be used in excavating the Strawberry Tunnel. Estimated cost, $100,000. The general plan is to erect a power-house at the point where the Strawberry Valley Tunnel water is dropped into the Salem Canal, utilizing a fall of 120 ft., and the minimum amount of water which flows into Spanish Fork, about 60 cu. ft. per second. This power is to be utilized for furnishing power to the Strawberry Tunnel until it is finished, and in furnishing light and power to towns in the neighborhood of the plant. The estimates indicate that there will be an excess of 100 HP. to dispose of for this purpose. The total power generated and available will be about 500 HP., of which probably 400 will be required to carry on the construction of the Strawberry Valley Tunnel. Authority has already been granted for the construction of about three miles of canal, which will carry the waters of the Strawberry Tunnel, as well as the waters of the Spanish Fork, to the power-house.

FREDERICTON, N. B.—The Provincial Government of New Brunswick has ordered the city to install purification plant. Cost, $125,000.

GRAND FALLS, N. B.—A system of waterworks is to be installed. Estimated cost, $20,000.

PORT ARTHUR, ONT.—The city will spend about $200,000 during the present year improving water-works. J. Antonisen is City Engr.

FORT WILLIAM, ONT.—During the present year the City Council will spend $32,000 in improvements and additions to municipal water-works system. Supplies required include a quantity of 4, 6 and 8-in. pipe, hydrants and service connections. H. S. Hancock, Jr., is Town Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

OSWEGO, N. Y.—We are officially advised that bids are being received by the Department of Works, E. A. Cook, Clk., for constructing about 2,000 ft. of 15 to 24-in. vitrified tile sewer, with manholes, etc. Charles H. Snyder is City Engr.

WHITE PLAINS, N. Y.—Bids are asked by the Bronx Valley Sewer Commission until 1.30 p. m., March 20, for furnishing all work and materials necessary for watertight and enduring construction of each one of the four sections which together comprise about twelve miles of reinforced circular concrete sewer from three to six feet in diameter and about three miles of circular concrete-lined tunnel, mostly 6½ and 8½ ft. in diameter. Frank N. Glover is Secy. (Advertised, Engineering News.)

PERTH AMBOY, N. J.—An ordinance has been approved by A. Bollschweiler, Mayor, for constructing 24-in. pipe sewer in Broad St. from Division St. easterly along Broad St. to Front St., and thence along Front St. northerly to connect with sewer in Washington St. Forrest L. Smith is City Engr.

SUMMIT, N. J.—Bids are asked by the Common Council until 8.30 p. m., March 19, for two sewage pumping engines, each having capacity of 1,500,000 gallons per 24 hours. J. Edward Rowe is City Clk. (Advertised, Engineering News.)

NEW CASTLE, PA.—It is reported that plans have been completed for constructing sewers in various streets. Estimated cost, $200,000. C. H. Mulholland is City Engr.

ARCADIA, FLA.—Several thousand dollars have been raised by private subscription for constructing sewerage system. The following committee has been appointed to take charge of the work: Dr. E. Green, Chn.; Robert Whidden, Treas., and J. G. King, Secy. W. B. Clay, C. E., of Montgomery, Ala., has been selected to take charge of surveys and construction.

DREW, OHIO.—Monroe & Son were lowest bidders for constructing sewer system, at $7,966. Bids were also submitted by Grimes-Kellhofer Co., $12,116; Kaps Bros., $10,332, and Kelley Bros., $8,806.

SCIO, OHIO.—Plans for constructing sewers and sewage purification have been presented to the State Board of Health for consideration.

YOUNGSTOWN, OHIO.—The Board of Public Service on Feb. 14 awarded contracts for constructing sewers as follows: Rose St. sewer to KANE & FLYNN; Oak St., East Rayen Ave. and Watt St. sewer to ANTHONY O'HORO; Fulton St. and Foster St. sewers to GARTLAND BROS. F. M. Lillie is City Engr.

ST. MARYS, OHIO.—Contract for constructing complete sewer system has been awarded to F. S. MITCHELL, of Bellefontaine, Ohio, at $75,765. FAUVER & RENNICK, of Findlay and Dayton, Ohio, were awarded contract for constructing sewer disposal works, except sand and gravel, at $6,642.

SPRINGFIELD, OHIO.—We are officially advised that the City Council has authorized bond issue of $150,000 to $175,000 for constructing main sewer of new sanitary system. The specifications have been amended by Board of Public Service to include tender of bids on vitrified pipe, concrete and reinforced concrete conduits. The following are the lengths and sizes of mains to be built this season: 8,010 ft. 18-in.; 3,804 ft. 24-in.; 1,900 ft. 28-in.; 2,100 ft. 32-in.; 4,465 ft. 36-in. W. H. Sieverling is Ch. Engr.

NASHVILLE, MICH.—The city contemplates constructing sewerage system. Estimated cost, $6,000.

FLINT, MICH.—Sewers 6,000 ft. in length will be constructed. Estimated cost, $7,000.

DECATUR, ILL.—We are officially advised that all bids received Feb. 14, by the Board of Local Improvements, for constructing Prairie Ave. sewerage system, have been rejected. The work consists of the following: 3,148 ft. 48-in. concrete sewer; 1,470 ft. 42-in. sewer; 235 ft. 24-in., 258 ft. 28-in., 334 ft. 18-in., 3,000 ft. 15-in., 8,711 ft. 12-in., 3,444 ft. 10-in., and 7,775 ft. 8-in. vitrified pipe sewer; two 24 × 6-in. and two 18 × 6-in. Y junctions; 15 8 × 8-in. T's; one 24 × 15-in. T; ten 15 × 6-in., 42 15 × 8-in., and 412 12 × 6-in. Y junctions; 180 10 × 6-in. and 290 8 × 6-in. Y's; 42 manholes; 42 catch basins; 22 lampholes, and 38,000 cu. yds. earth excavation. Bids are re-asked until March 2. The contract for constructing 1,010 ft. 54-in. cement sewer in the Cantrall St. sewer district has been awarded to JOHN DOOHN, of Decatur, Ill. Albert Leach is City Clk. A. B. Alexander is City Engr.

DUNDEE, ILL.—It is reported that a sewer system will be constructed in West Dundee.

DECATUR, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., March 9, for constructing 2.75 miles of 36 to 60-in. reinforced concrete sewers. Estimated cost, $77,743. Albert Leach is City Clk. A. B. Alexander is City Engr.

OTTUMWA, IOWA.—Bids are asked until March 11 for constructing trunk sewers as follows: Reinforced concrete sewer: 475 ft. 9-ft., 2,783 ft. 8-ft. and 430 ft. 7-ft. Brick and stone, 2,460 ft. 8-ft. Brick or vitrified block, 1,930 ft. 5-ft. Vitrified clay pipe, 480 ft. 3-ft. C. R. Allen is City Engr.

ST. PAUL, MINN.—The Board of Public Works, J. S. Grode, Pres., has awarded contract to RYAN & JOHNSON, at $33,700, for constructing sewers in Aldine St., from Selby to Marshall Aves.; in Marshall Ave., from Snelling to Wheeler Aves.; in Dayton Ave., from Saratoga to Wheeler Aves., and in Snelling Ave., from St. Anthony to Selby Aves. L. E. Rundlett is City Engr.

PITTSBURG, KAN.—Bids are asked by N. E. Wood, City Clk., until 5 p. m., March 20, for constructing 8,817 ft. 21-in., 9,193 ft. 15-in., 12,933 ft. 12-in., and 977 ft. 10-in. vitrified pipe sewers, together with 71 manholes. Charles D. Bell is City Engr.

JOPLIN, MO.—The City Council has awarded contracts amounting to $27,716 for constructing sewers, as follows: South Joplin district No. 21, awarded to S. T. DAVIS for $5,732. In alley between Main and Joplin Sts., from 15th to 23d St. South Joplin district No. 23, awarded to S. T. DAVIS for $6,360. In alley between Pennsylvania and Kentucky Aves., from 14th to 23d St. South Joplin district No. 22, awarded to PATTON & KOST for $5,914. In alley between Virginia and Pennsylvania, from 14th to 23d St. Eleventh St., No. 3, awarded to L. BURRESS for $2,468. In alley between Main and Frisco right-of-way from 11th to 14th St. Seventh St. district No. 1, awarded to PATTON & KOST for $1,411. In alley between Pennsylvania and Virginia Aves., from Seventh St. south 770 ft. South Joplin district No. 24, awarded to E. J. OVERLY for $234. In alley east of Jackson, from between 13th and 14th Sts. East Joplin district No. 2, awarded to PATTON & KOST for $2,330. In alley east of Broadway, between High and Division Sts.

LITTLE ROCK, ARK.—Burns & McDonald, Kansas City, Mo., Engrs., will make a complete survey of the city, inspecting the old sewers and prepare maps and furnish the General Sewer Committee an estimate of cost of a complete and comprehensive sewer system for the entire city. This will include the rebuilding of old sewers where needed, the construction of storm sewers and the building of such new sewers as are necessary.

BATESVILLE, ARK.—Bids are asked by the Board of Commissioners, John Q. Wolf, Secy., until 5 p. m., March 5, for constructing sewer system in Sewer District No. 1, Batesville, Ark.

DALLAS, TEX.—The State Fair Association has adopted plans by Engineer Erwin for proposed sewer to drain the fair grounds, and bids for construction work will be asked at once. About $5,000 will be expended. Sidney Smith is Secy.

SOUTH McALESTER, IND. T.—See under Water Supply—Irrigation.

KELSO, WASH.—J. R. West, C. E., of Seattle, is planning new sewer improvement district for Kelso, Wash., to be built this summer.

EDMONTON, ALTA.—The Provincial Government has instructed the city to construct septic tanks. P. P. Kelly is City Engr.

STRATHCONA, ALTA.—The Provincial Government has instructed the town to install septic tanks. A. J. McLean is Town Engr.

NIAGARA FALLS, ONT.—T. E. FERRIS has been awarded contract for constructing 235 ft. of sewer to connect the new Bridge St. station of the Intercolonial Ry. with Park St. sewer. The excavation will be practically all rock work. Thomas Punfray, 1026 Niagara St., Buffalo, N. Y., is Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., March 14, for furnishing all labor and material required for erection of storage sheds, manure pit and refuse incinerator in North Meadow Storage Yard in Central Park, on north side of 97th St. Transverse Road.

The following bids were received Feb. 25 by M. Craven, Street Cleaning Comr., for final disposition of garbage for term of five years, beginning Sept. 1, 1907: U. S. Sanitary Utilization Co., 30 Bowling Slip, New York, $19,444 per year; McKeever & Co., Long Island City, $55,000 per year, and Darling & Co., Long Island City, $73,800 per year.

NEW BRIGHTON (S. I.), N. Y.—It has been decided to award contract for erection of refuse destructor to HEENAN & FROUDE, 111 Broadway, New York, for $23,995. J. T. Fetherston is Supt. Street Cleaning.

WASHINGTON, D. C.—The District Commissioners will erect crematorium on grounds of Washington Asylum Hospital. Estimated cost, $15,000. Snowden Ashford is Bldg. Inspector.

PENSACOLA, FLA.—LEWIS & KITCHEN, 433 Wabash Ave., Chicago, Ill., has been awarded contract for constructing garbage incinerating furnace, stack and furnace, at Navy Yard, Pensacola, Fla., at $4,825.

VICTORIA, B. C.—The city is arranging for construction of incinerator plant. Estimated cost, $35,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The following bids were received on Feb. 18 by the Board of Contract and Supply for improving Ontario St., from Central to Livingston Aves.: M. F. Dollard, $24,854; Robert Shafer, $29,245; T. Henry Dumary, $29,124; John Doyle, $25,470; Mulderry Bros., $23,970, and Edward F. Dillon, $28,672. The bidders are all of Albany. Contract will soon be awarded to Mulderry Bros. Bid of Mulderry Bros. will be given in detail next week under Contract Prices. Walter Melius is City Engr. Isidore Wachsman is Clk. Board of Contract and Supply.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, President Borough of Brooklyn, until 11 a. m., March 6, for regulating, grading and paving wtih asphalt on concrete foundation roadways of various streets, Borough of Brooklyn.

Bids are asked by Moses Herrman, Pres., Dept. of Parks, until 3 p. m., March 14, for furnishing and delivering 286,000 sq. ft. of grass sod to the various parks in Borough of Brooklyn.

NIAGARA FALLS, N. Y.—Bids were received on Feb. 19 by the Board of Public Works for paving Main St., from end of present pavement to McKoon Ave., McKoon Ave. to Whitney St. and Whitney St. to James St., as follows: Interstate Paving Co., Hassam cement, $2.10 per sq. yd., $27,620; asphalt block, $2.58 per sq. yd., $32,396; Barber Asphalt Co., Trinidad asphalt, $2.46 per sq. yd., $30,224; Burgard Paving Co., California asphalt, $2.40 per sq. yd., $28,395, and Warren Bros., bithulithic macadam, $2.55 per sq. yd., $31,858. Walter McCulloh is City Engr.

PORT CHESTER, N. Y.—Bids are asked until 8 p. m., March 18, for improving Poningo and Prospect Sts. The work involves the following approximate quantities: 3,300 cu. yds. excavation, 8,300 sq. yds. wood pavement, 2,400 lin. ft. curbing, 2,380 sq. yds. brick pavement, 600 lin. ft. vitrified pipe drains and 2,557 sq. yds. macadam pavement. C. D. Camp is Village Clk. (Advertised Engineering News.)

WATERTOWN, N. Y.—Bids are asked by the Board of Public Works until 5 p. m., March 14, for constructing about 1,000 sq. yds. of pavement in Union St., extending from the southerly margin of State St. to the northerly margin of Franklin St., together with all necessary curbing, catch basins and such other work and materials as may be required for completing pavement. Bids will be received for sheet asphalt pavement on concrete base; bitulithic pavement with trap rock surface or wood block pavement on concrete base.

Bids also are asked at the same time for constructing about 15,000 sq. yds. of pavement in Academy St., extending from the easterly margin of Washington St. to the easterly margin of Hamilton St., together with necessary curbing, catch basins, and such other work and materials as may be required for completing pavement. Bids will be received for sheet asphalt pavement on concrete base; bitulithic pavement with trap rock surface or wood block pavement on concrete base.

Bids also are asked at the same time for constructing about 1,800 sq. yds. of pavement in Factory and Pearl Sts., from the northerly end of bridge across southerly branch of Black River to the northerly margin of Water and Moulton Sts., together with necessary curbing, catch basins, and such other work and materials as may be required for completing pavement. Bids will be received for sheet asphalt pavement on concrete base; bitulithic pavement with trap rock surface; wood block pavement on concrete base or Medina block pavement on concrete base.

Bids also are asked at the same time for constructing about 3,400 sq. yds. of pavement in Court St., extending from end of present pavement near Arch St. to southerly end of Court St. bridge, together with necessary curbing, catch basnis and such other work and materials as may be required for completing pavement. Bids will be received for sheet asphalt pavement on concrete base; bitulithic pavement with trap rock surface; sheet asphalt pavement with vitrified paving brick along street car rails and asphalt between, with concrete base; bitulithic pavement, with vitrified paving brick along street car rails, and bitulithic between, with trap rock surface; wood block pavement on concrete base, or Medina block pavement on concrete base. Harry E. Baker is City Engr. (Advertised, Engineering News.)

JERSEY CITY, N. J.—Bids are asked by the Board of Chosen Freeholders of Hudson County, Walter O'Mara, Clk., until 4 p. m., March 7, for repairing wall and roadway of Weehawken branch of Hudson Boulevard.

SHARON, PA.—Joseph Hunter, State Comr. of Highway, has awarded contract to ELMER M. LOVE, of Corry, Pa., at $19,856, for macadamizing about 12,000 ft. of road in Hempfield Township. WILLIAM McINTYRE'S SONS has been awarded contract for constructing balance of road between this city and Mercer.

HARRISBURG, PA.—Bids are asked by the State Highway Department of Pennsylvania, until March 15, for constructing 17,100 ft. of road, on National Pike, 18 ft. wide, extending from Station O, at the Somerset County line, to Station 171, in Fayette County. Joseph W. Hunter is State Hwy. Comr.

WASHINGTON, D. C.—Bids are asked until March 16 by Maj. M. Gray Zaski, Q. M., U. S. A., for improving the Abraham Battlefield.

VALDOSTA, GA.—Bids are asked until March 1 for laying 5,500 sq. yds. of vitrified brick paving and 2,000 sq. yds. of cement sidewalks. J. J. Newman is City Clk.

NEW ORLEANS, LA.—We are officially advised that the following bids were received Feb. 19 by the Board of Commissioners for furnishing material and constructing about 4,000 lin. ft. of roadway, 30 ft. wide, along Mississippi River front, from Bienville to Barricks Sts. With (a) Georgia granite blocks, (b) Portland cement concrete foundation, (c) 6-in. natural cement concrete foundation, (d) blue stone curbing. The Nashville Roofing & Paving Co., Nashville, Tenn., (a), (b) and (d), $46,350, and (a) (c) and (d), $45,680. W. H. Gouglass, New Orleans, La., (a), (b) or (c), and (d), $46,076, and Grasser Contracting Co., New Orleans, La., (a), (b) or (c) and (d), $45,518. A. C. Bell, 506 Hibernia Bank Bldg., is Engr.

LOUISVILLE, KY.—The BARBER ASPHALT PAVING CO., 114 Liberty St., New York, has been awarded contracts by the Board of Public Works for paving Fourth St. from Main St. to Walnut St., 6,[illegible] sq. yds., and Preston St. from St. Catherine St. to Oak St., 2,718 sq. yds. On the Fourth St. work the Barber Asphalt Paving Co. bid $1.62 per sq. yd., with 10-year guarantee; the American Standard Asphalt Co. bid $1.79. The Barber Asphalt Paving Co. bid $1.31, with 5-year guarantee, on Preston St., American Standard Co., $1.38. G. W. GOSNELL was awarded contract for paving six alleys at $1.47 to $1.50 per sq. yd. L. R. FIGG was low bidder for paving three alleys, at $1.45 per sq. yd., and was awarded contracts. Joseph P. Claybrook is City Engr.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners until 11 a. m., March 9, for grading, draining and paving portion of Brecksville road. Julius C. Dorn is Clk., Board County Comrs. A. B. Lea is County Engr.

LIMA, OHIO.—Bids are asked by the Board of Public Service, L. L. Crumrine, Secy., until noon, March 5, for the improvement of South Pine St., from Ottawa River to its intersection with St. Johns Ave., by grading, curbing and paving with vitrified brick pavement on 6-in. concrete foundation, approximately 17,000 sq. yds.

MARYSVILLE, OHIO.—Bids are asked by the Village Council until March 8, for paving State and Mill Sts. The business portion of the streets are to be constructed 50 ft. wide and residence part 36 ft. J. C. Kennedy is Village Engr.

TOLEDO, OHIO.—The Board of Public Service recently awarded contracts amounting to $69,307, for paving portions of the following streets. The larger contracts awarded were as follows: Lawrence Ave., bithulithic, H. P. STREICHER, $7,649; Locust St., Logan block, KERLIN BROS., $10,243; Jervis St., Logan block, KERLIN BROS., $3,429; Parker Ave., Big Four block, JAMES S. SHEEHAN, $4,129; Orchard St., Logan block, KERLIN BROS., $15,407; West Broadway, Big Four block, JAMES S. SHEEHAN, $10,552; Norwood Ave., WILLIAM McMAHON, $10,483, and Jervis St., Big Four block, JAMES S. SHEEHAN, $3,755. Frank I. Consaul is Ch. Engr., Bd. Pub. Service.

CINCINNATI, OHIO.—The Board of Public Service has received bids for paving Stanley Ave., with macadam, from Columbia Ave. to Beechmont St., as follows: Kirchner, $28,266; John W. Sullivan, $28,530, and A. J. Henkel, $28,264. Engineer's estimate, $28,843. Charles N. Dannenhower is City Engr.

NEW PHILADELPHIA, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until March 18, for constructing highway.

COLUMBUS, IND.—Bids are asked by the County Commissioners until March 7, for construction of 2¼ miles of gravel road on line between Clay and Rockcreek Townships. J. M. Davis is County Audr.

ELKHART, IND.—The Board of Public Works recently awarded contract to W. WORTH BEAN, of Benton Harbor, at $30,302, for paving Harrison St. with Hocking Valley brick. Emil V. Anderson is City Clk.

EVANSVILLE, IND.—Bids are being received by the County Commissioners for reconstructing Henderson gravel road in Union Township.

GREENFIELD, IND.—Bids are asked by the City Council until March 9 for paving South Franklin St. and laying cement sidewalks. O. O. Bever is City Clk.

JASONVILLE, IND.—LOUIS LETSINGER, of this city, has been awarded contract for constructing macadamized road in Green County.

INDIANAPOLIS, IND.—Bids are asked by the Board of County Commissioners, Mack Pogue, Audr., until 1 p. m., March 7, for improving highways in Washington and West River Townships.

MISHAWAKA, IND.—Bids are asked until March 4 for laying 37,000 sq. yds. of brick and 12,000 sq. yds. of asphalt paving. William S. Moore is City Engr.

WINCHESTER, IND.—The contract for constructing three gravel roads, aggregating 7½ miles, has been awarded to CALVIN MILLER, of Decatur, Ind., at $23,720.

COLUMBUS, IND.—Bids are asked until March 18 for paving 12,700 sq. yds. with asphalt on Franklin St. William H. Rights is City Engr.

MICHIGAN CITY, IND.—W. B. HUTCHINSON, of this city, has been awarded contract for paving Kuryan Road with macadam.

SHERIDAN, IND.—Bids are being received by the Town Council for paving various streets. J. N. Lindley is Town Clk.

GRAND RAPIDS, MICH.—City Engineer Anderson has submitted to the Board of Public Works estimates for improving portions of various streets, as follows: College Ave., Fulton to Bridge Sts., bituminous macadam, $21,[illegible]; macadam, $17,210. College Ave., Fulton to Lyon Sts, creosoted wood blocks, $1[illegible]; to Crescent St., $19,080; to Crescent St., macadam, $14,500. West Leonard St., Grand River to Fremont Sts., brick paving, $7[illegible]00. Carrier St., Plainfield to North College Aves., brick paving, $26,[illegible]. East Bridge St., Lafayette to College Aves., brick paving, $16,500. LaGrave St., Fulton to Wealthy College Ave., brick paving, $21,-600. North Ionia St., Bridge to Crescent Aves., brick paving, $5,180. Fountain St., Lafayette to Union Sts., creosoted wood blocks, $1[illegible]0. North Lafayette St., Fountain to Bridge Sts., bituminous macadam, $13,680.

MUSKEGON, MICH.—The paving of Western Ave. from Goodrich St. to its intersection with Eastern St. and of Eastern Ave. to Ottawa St. has been authorized by the Common Council. Clifford S. Gamble, City Engr., has been ordered to prepare maps and plans. The question of the style of paving is left open, with asphalt, macadam or bituminous macadam preferred.

ADRIAN, MICH.—Bids are asked by the Street Committee until 2 p. m., March 11, for paving College Ave. 28 ft. wide, and Broad St. 35 ft. wide, with Pitch Lake sheet asphalt, on 6-in. concrete foundation, upon the following estimates: Pavement, 24,250 sq. yds.; excavation, 9,665 cu. yds.; combined concrete curb and gutter, 13,559 lin. ft.; retaining curb, 1,254 lin. ft.; 17 catchbasins and connections; 50 inlets and connections; 8-in. sewer pipe, vitrified, 610 ft.; 10-in. sewer pipe, vitrified, 982 ft.; 12-in. sewer pipe, vitrified, 156 ft. John Mawdsley is City Clk. James Blair is City Engr.

PARIS, ILL.—Bids are asked until 7 p. m., March 5, by Board of Local Improvements for 14,682 sq. yds. of brick pavement on concrete foundation. T. C. McCord, Mayor. W. T. Blackburn, City Engr. (Advertised, Engineering News.)

QUINCY, ILL.—The Board of Local Improvements is considering paving Tenth St. from south line of Oak St. to north line of Sycamore Ave., to a width of 40 ft. It is also contemplated to pave Tenth St. from south line of Oak to north line of State St., to a width of 36 ft. F. L. Hancock is City Engr.

SHREVEPORT, ILL.—H. M. SEVERANCE, of this city, has been awarded contract for paving Jordan St.

WATERLOO, IOWA.—Bids are asked until March 16 for roadwork in Bennington Township.

IOLA, KAN.—R. S. GILFILLAN, of this city, has been awarded contract for paving East Madison St. George Myers is City Engr.

ST. LOUIS, MO.—Contracts for paving portions of various streets in North and South St. Louis have recently been awarded by the Board of Public Improvements. The contracts aggregate $380,000. The streets to be improved, successful bidders and amounts, are as follows: Nebraska Ave., between Broadway and Dakota St, the PARKER-WASHINGTON CO. of West Virginia, $23,-907; Louisiana Ave., between Arsenal and Pestalozzi Sts., TRINIDAD ASPHALT MANUFACTURING CO., $5,880; Fall Ave., between North Market St. and St. Louis Ave., the BARBER-ASPHALT PAVING CO., $14,-693; Nebraska Ave., between Dakota and Meramec Sts., TRINIDAD ASPHALT MANUFACTURING CO., $18,761; Minnesota Ave., between Gravois and Shenandoah Aves., the BARBER ASPHALT PAVING CO., $25,-474; Semple Ave., between Page Boulevard and Wells Ave., the PARKER-WASHINGTON CO., $12,729; Maple Ave., between Euclid Ave. and King's Highway, the BARBER ASPHALT PAVING CO., $6,284; Plymouth Ave., between Goodfellow and Hodiamont Aves., the PARKER-WASHINGTON CO., $15,544; Louisiana Ave., between Pestalozzi St. and Magnolia Ave., the BARBER ASPHALT PAVING CO., $4,799; Lafayette Ave., from 14th St. to Mississippi Ave., the BARBER ASPHALT PAVING CO., $20,941; Gano Ave., between 20th St. and Florissant Ave., J. E. PERKINSON, $10,499; Garrison Ave., between Montgomery St. and St. Louis Ave., HARRY F. HEMAN, $5,870; Minnesota Ave., between Cherokee and Wyoming Sts., G. EYERMANN & BRO., $11,150; Farrar St., between 25th and Palm Sts., J. E. PERKINSON, $10,272; Cote Brilliante Ave., between Clara and Goodfellow Aves., WM. R. BUSH CONSTRUCTION CO., $10,291; Tennessee Ave., between Miami and Cherokee Sts., G. EYERMANN & BRO., $12,155; Fillmore St., between Michigan and Colorado Aves., G. EYERMANN & BRO., $18,180; Carter Ave., between Grand and Prairie Aves., JAMES T. McMAHON, $11,521; Swan Ave., between Boyle Ave. and King's Highway Boulevard, WM. R. BUSH CONSTRUCTION CO., $29,-682; Lexington Ave., between Clay and Newstead Aves., GRANITE BITUMINOUS PAVING CO., $32,105; Broadway, between Neosho and Osage Sts., RUECKING CONSTRUCTION CO., $71,825.

AUSTIN, TEX.—Bids are asked until March 1 for paving about 8,000 sq. yds. on Congress Ave. with vitrified brick from Third St. to Colorado River bridge and such other streets as City Council may designate for a period of one year from date of signing contract. A. C. Goeth is Chn. St. Com. C. E. Leonard is City Engr.

SPOKANE, WASH.—Olive Ave. is to be paved with "Oiliroid," a new pavement invented by H. L. Lilienthal, of this city. Charles McIntyre is City Engr.

ASTORIA, ORE.—Bids are asked by the County Court until March 5 for grading a road 20 ft. wide from the reservoir to connect with Olney Road at Williamsport.

STOCKTON, CAL.—The City Council contemplates paving various business streets with asphalt. R. C. Tunsetty is City Engr.

TORONTO, ONT.—C. H. Rust, City Engr., has recommended constructing concrete sidewalks on various city streets. Estimated cost, $11,242.

ST. CATHARINES, ONT.—Bids are asked by D. Benzie, City Engr, until noon, March 11, for paving various streets with either vitrified brick, sheet asphalt, bitulithic or asphalt block.

REGINA, SASK.—Bids are asked by J. Kelso Hunter, City Clk., until 5 p. m., March 1, for construction of any kind of pavement on various streets totaling 73,350 sq. yds. Angus Smith is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

DEXTER, ME.—The Dumbarton Woolen Mills are to have increased power, by the installation of two 66-in. boilers of 125 HP. each, which will be put in about April 1. The mill is to have an 8-string washer in the wet-finishing department.

NORTH DIGHTON, MASS.—The Mount Hope Finishing Co., of North Dighton, is contemplating a number of additional improvements to its plant, including new buildings.

WORCESTER, MASS. — M. J. Whittall, owner of Palmer Carpet Mill, at Palmer, Mass., whose principal plant is in this city, is planning to erect a 2-story addition to main mill, giving 7,000 sq. ft. of additional floor space.

BLACKSTONE, MASS.—The equipment of the Blackstone Mfg. Co. is to be increased by 7,000 spindles and 150 looms. The plant now has 41,792 spindles and 1,032 looms.

SPRINGFIELD, MASS.—The directors of the Barnett Drop Forge Co. have decided to rebuild their plant at once, and contracts will be made as soon as possible for the new building. A drop forge plant of all steel construction, 60x60 ft., will be built, also a machine shop 56x36 ft., making a plant about twice the size of the one recently destroyed. It is hoped to have the plant in operation by April 1.

SPRINGFIELD, MASS.—It is reported that the plant of the U. S. Envelope Co. is to be erected at Springfield. The building will be 300 × 100 ft. and six stories high, and the power plant will have a capacity of 100 HP. Estimated cost, $300,000. Samuel M. Green, Holyoke, Mass., is Engr. and Arch.

MERIDEN, CONN.—Manning, Bowman & Co., manufacturers of granite and plated ware, have decided to increase the amount of capital stock from $50,000 to $150,000. The company has decided to expend about $50,000 in the enlargement of its plant. Plans for a 4-story brick factory building, about 250 ft. long, are now being drawn. The structure will add about 35,000 sq. ft. of floor space to the company's accommodations.

FAIRFIELD, CONN.—The Eastern Underwear Co., of South Norwalk, Conn., has completed plans to enlarge its plant in Fairfield. The new plans call for the erection of a new building, two stories, 50x100 ft. This will increase the capacity by 175 machines and 125 hands will be engaged immediately upon its completion. The bids have not yet been closed.

BUFFALO, N. Y.—The William Steele & Sons Co., 1600 Arch St., Philadelphia, Pa., has plans posted from James Steward & Co., Fisher Bldg., Chicago, Ill., for the erection of a 400,000 bushel grain elevator, at Buffalo, for Francis Perot's Sons Malting Co. The elevator will consist of nine concrete bins 25 ft. in diameter and 90 ft. high, above which will be the necessary machinery, giving a total height of 170 ft. It will measure 80x96 ft.

CATSKILL, N. Y.—It is reported that the Seaboard Brick Co., which was recently organized with a capital of $7,000,000, has completed negotiations for the purchase of a 550-acre farm at Catskill, N. Y. It is stated that the management will establish a brick-making plant there, with a capacity of 300,-000,000 building bricks a year.

TRENTON, N. J.—It is reported that plans have been prepared for a publishing plant for Albert Brandt. The building will have a frontage of 220 ft. on Princeton Ave., with two side wings, 90 ft. deep. Building is to be of brick and the main portion two stories high. The plans were prepared by B. Thines, Arch., 104 North Stockton St.

YORK, PA.—The Hart-Kraft Motor Co. contemplates erection of an automobile manufacturing plant at this city. The building will be of slow-burning construction, 40 × 100 ft., with two stories. New equipment will be nistalled. L. M. Hartman, York, is interested.

LAWRENCE, PA.—It is reported that the Pennsylvania R. R. Co. will spend $175,000 for new shops and make other improvements during the coming spring. Alexander C. Shand, Philadelphia, Pa., is Ch. Engr.

BUTLER, PA.—Announcement has been made that a large shoe factory is to be erected in the vicinity of Butler. The site has been purchased and work of construction is to be started this spring. Among those interested are W. W. Laird, of the Laird Shoe Co.; Charles Duggan and T. A. Dye, of the International Trust & Savings Co., Pittsburg.

PHILADELPHIA, PA.—Henry B. Hughes has been engaged to prepare plans for the 4-story brick and steel manufacturing building, 200x350 ft., to be erected at a cost of $250,000.

Dodge & Day, Nicetown, Philadelphia, are reported to be preparing plans for a brick and concrete factory which is to be erected at Fifth St. and Glenwood Ave., for S. L. Allen Co., at a cost of $100,000.

WILKES-BARRE, PA.—The directors of the Wyoming Valley Lace Mills have decided to increase the capital stock from $2,000,000 to $2,500,000. The larger part of the $500,000 increase will be devoted to enlarging and improving the Wyoming Lace Mill plant in this city. The improvements decided upon will be started, it is reported, early in the spring. When the changes are completed the capacity of the mill will be almost doubled.

ELSMERE, DEL.—The Diamond State Fibre Co. is having plans prepared for a factory to be built here. The building will be 300 × 600 ft., 2-story, and will be constructed of concrete. A power plant and all machinery will be needed.

BALTIMORE, MD.—The Southern Turpentine Co., 82 Wall St., New York, has purchased lot at Highlandtown, and will erect turpentine plant to cost about $50,000. Plans will be distributed about March 1 for estimates on construction through E. Macht, Equitable Bldg. A distributing warehouse at 332 and 334 North St. has also been leased. The Baltimore office is at 62 Hanover Bldg., 110 West Fayette St.

The South Baltimore Steel Car & Foundry Co., Continental Bldg., will rebuild its axle and truck shop, which was destroyed by fire at its plant at Curtis Bay. New machinery will have to be installed.

STATESVILLE, N. C.—The stockholders of the Statesville Flour Mills have decided to rebuild plant recently burned at a loss of $75,000. A 500-bbl. mill will be erected. The capital stock will be increased from $40,000 to $60,000.

CHINA GROVE, N. C.—The Patterson Mfg. Co., of China Grove, will begin the construction of its mill at once, which will have 20,-000 spindles and 600 looms. J. W. Cannon, of Concord, is Pres.

YORKVILLE, S. C.—The Neely Mfg. Co., of Yorkville, which produces soft yarns, is to add 2,000 spindles to its present equipment of 3,400 spindles. An addition, 75x145 ft., is to be erected, and the cost of all the improvements will be about $60,000. Mr. W. B. Moore is Pres.

COLUMBUS, GA.—The contract for the erection of the Swift spinning mill has been let, and the work on the building will be commenced in a short time. The contractor is GEORGE B. HINMAN, 717 Austell Bldg., Atlanta. O. R. Makepeace & Co., of Providence, R. I., are Archs. The new factory will be located on North Highlands, on the block between Second and Third Aves. and 30th and 31st Sts. It is to be three stories high, and will cover a space of 134x178 ft. In addition to the main building there will be warehouses, etc., for storing cotton.

JACKSONVILLE, FLA.—The Seaboard Air Line Ry. Co. is building a 1,200-car yard, on which track laying is to be started soon. A machine shop to cost $550,000 is to be built. J. M. Shea is Supt. Sixth Division, Jacksonville.

BIRMINGHAM, ALA.—The Birmingham Car & Mfg. Co., recently incorporated by O. E. Foust and others, has purchased ten acres at North Birmingham, and will erect a plant to manufacture mine cars and car wheels. It is proposed to have the plant completed and in operation by Aug. 1.

BONAMI, LA.—The Longville Long Leaf Lumber Co., recently incorporated, is completing arrangements for the establishment of plant to have a daily capacity of 200,000 ft., consisting of general yard stock, railroad and export timbers. Sawmill, planing mill, dry-kilns, tenement houses and all other buildings necessary to a modern equipped plant will be erected. B. H. Smith is Mgr., Bonami.

NEWPORT, TENN.—C. F. Boyer will establish the Bellevue Cotton Mill to operate 5,000 spindles on the production of cotton yarns. Machinery has been purchased and is being installed. About $50,000 will be invested.

NICHOLASVILLE, KY.—The Pittsburg Barytes Co. has purchased ground here and will erect a $50,000 plant with a capacity of 40 tons per day. W. J. Wyman, of Honaker, Va., is Res. Mgr.

CINCINNATI, OHIO.—The Reliance Engineering Co., 313 Fourth National Bank Bldg., is preparing plans for a plant for the B. H. Kroger Grocery & Baking Co., and contracts for the buildings will be let about Feb. 20. There will be a warehouse, 117 × 190 ft., and a factory building, 85 × 170 ft. The power plant will have a capacity of 100 HP. Estimated cost, $150,000.

CUYAHOGA FALLS, OHIO.—It is reported that the T. C. Nute Co., of Akron, will erect a foundry, 90 × 100 ft., at Cuyahoga Falls, at a cost of $10,000.

ST. JOSEPH, MICH.—James M. Ball is considering the plans of building a factory to cost $30,000 or $40,000.

SAGINAW, MICH.—The Dudley Butter Co., a Owasso company, will erect a butter renovator at once in this city. The investment in building and machinery will be $20,000 to $30,000.

KENSINGTON (Chicago post-office), ILL.—It is reported that R. & S. SOLITT, 6 East Adams St., have the general contract for constructing the following buildings, to be erected at Kensington, for the Griffin Wheel Co., 138 Jackson Boulevard: Cupola and charging room, two stories, 50x237 ft.; foundry building, one story, 288x326 ft.; office building, two stories, 52x62 ft.; machine shop, one story, 50x80 ft.; cleaning house, one story, 71x273 ft.; core room, two and three stories, 53x100 ft. All to be built of brick and stone, with trussed roofs. Estimated cost, $375,000.

EDWARDSVILLE, ILL.—The Banner Clay Works, M. M. Bushong, Supt., will have plans prepared for a 1½-story brick plant, 138 × 67 ft. The plans will provide for brick and mill construction, composition roof, etc. Estimated cost, $35,000. Bids will be received in about 30 days.

PLYMOUTH, IOWA.—Articles of incorporation have been filed here by the Plymouth Clay Products Co., which will erect a large sewer pipe factory near the Plymouth gypsum mill, southeast of the city. The company is incorporated for $250,000 and will begin the erection of its plant as soon as the weather will permit.

SPRINGFIELD, MO. — C. M. Roquette, Arch., 938 Frisco Bldg., St. Louis, will prepare plans for a 1 and 2-story brick and stone locomotive, car shops and creosoting plant, to be erected at Springfield, Mo., for the St. Louis & San Francisco R. R. Co., Frisco Bldg., St. Louis. Cost, $500,000. F. A. McArthur is Master Mechanic, Springfield.

ST. LOUIS, MO.—The Haynes-Langenberg Mfg. Co., 23d and Locust Sts., City, will erect a factory here which will be equipped with machinery for the manufacture of kitchen ranges and similar articles. The cost will be about $40,000. The contract for the erection of the building has been let to ALBERT HAESELER, Wainwright Bldg., St. Louis.

J. D. Paulus, Laclede Bldg., will prepare plans for a one-story fireproof factory building, 160x380 ft., to construct street car trucks for the Acme Tool & Truck Co. The building will be constructed of brick and stone, and will cost about $250,000.

OAK GROVE, MO.—Odessa Canning Co. has been organized by H. N. and G. L. Brown to operate cannery having a daily capacity of 15,000 cans. Two frame buildings, one 50 × 80 ft. and one 40 × 80 ft., will be erected.

MAMMOTH SPRING, ARK.—Edw. C. Bellamy, proprietor of the Mammoth Spring Roller Mills, will spend about $10,000 overhauling the plant and putting same in operation.

HELENA, ARK. — The Paepcke-Leicht Lumber Co., 140 West Chicago Ave., Chicago, Ill., will establish a veneer mill, box factory and sawmill plant at Helena, Ark., the whole covering about two acres of ground.

BEAUMONT, TEX.—The Beaumont Rice Mills, of Beaumont, J. E. Broussard, Mgr., will construct a new and well equipped rice mill to have a capacity of 1,200 bbls. a day and to be completed in time for milling the coming rice crop. The new mill will occupy the site of the plant which was destroyed by fire last season. The plans for the new structure are now being designed by D. J. Hayes, of Houston and New Orleans, and upon the same being accepted the contract for constructing the mill will be awarded.

WOODBURN, ORE.—A company is being formed to establish a big ice plant and cold storage plant at Woodburn. The company will put in an ice plant of 30 tons capacity. The storage will have a beer room large enough to hold five carloads, another to hold two carloads of cattle or more, also butter, eggs, cream and miscellaneous storage rooms. The company will have a capital stock of $20,000. R. M. Hicks is interested.

MONTREAL, QUE.—The Mount Royal Spinning Co., Ltd., has been organized lately with a capital of $1,500,000. It is the company's intention to establish a cotton mill containing about 40,000 spindles, near the city. The provisional directors of the Mount Royal Spinning Co. are W. C. McIntyre, T. E. Hodgson, Alphonse Racine, J. W. Pyke, C. W. Trenholme, W. T. Whitehead and H. M. Marler. Mr. Whitehead will act as general manager. He probably will supervise the construction of the mill. The capacity of the new mill will be upwards of 1,200 looms, with a bleaching and printing works in connection.

HULL, QUE.—J. W. Woods, Ottawa, will erect a 5-story brick and steel 200x70 ft. factory here in the spring. Estimated cost, $110,000.

OTTAWA, ONT.—The Ottawa Car Co. will start work in the spring on shops here for the manufacture of freight, passenger and electric cars.

HAMILTON, ONT.—Adam Zimmerman, M. P., Hamilton, and associates have formed a syndicate to manufacture balbriggan underwear. The plant to be erected here this summer will cost $300,000. The Lawrence Co., Lowell, Mass., is also interested.

HAMILTON, ONT.—James Thompson and Percy Smith will erect, in Hamilton, a factory for manufacturing underwear. Estimated cost, $50,000.

PORT ARTHUR, ONT.—The Muirhead Milling Co., a local organization, will erect a milling plant here, to cost about $100,000, which will be completed in time for the crop of 1907.

PORT ARTHUR, ONT.—A $100,000 fireproof flour mill will be erected here, which will have a capacity of 200 bbls. J. Muirhead, Port Arthur, is interested.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

BARGES.—Montgomery, Ala.—Bids are asked by Capt. J. B. Cavanaugh, Corps of Engrs., U. S. A., Montgomery, until March 9, for constructing four wooden barges.

DREDGING.—Jacksonville, Fla.—Bids are asked by Maj. Francis R. Shunis, U. S. Engrs., until noon, March 25, for dredging in Tampa Bay, Fla. (Advertised, Engineering News.)

DREDGING.—Grand Rapids, Mich.—Bids are asked by Col. M. B. Adams, U. S. Engrs., until 3 p. m., March 20, for dredging harbors on east shore of Lake Michigan and also for dredging at Saugatuck Harbor, Mich.

ROCK WORK. — Port Arthur, Ont. — THOMAS JOHNSON has secured contract for a large amount of rock work along the Grand Trunk Pacific Ry. near this town. The work will take until late in the fall to complete.

DRAIN.—Algona, Iowa.—Bids are asked until March 12 by the Board of Supervisors of Kossuth County for work on Public Drain No. 5. Estimated cost, $40,000.

Bids are asked for Public Drain No. 4 until April 5. Estimated cost, $430,000. No. 4 is known as the "mud creek drain," and will be probably the longest public drain in the state. Drainage bonds will be sold to pay for the work.

GRAND STAND.—Toronto, Ont.—George Gouinlock, Arch., has let the contract for the erection of a grand stand for the exhibition grounds to FRED. HOLMES. The structure will cost $219,465 and will seat 15,000 people. It will be 700 x 113 ft., constructed of brick, steel and concrete.

SEA-WALL, ETC.—Philadelphia, Pa.—Bids are asked by Maj. C. A. F. Flagler, Corps of Engrs., U. S. A., Philadelphia, until 11 a. m., March 16, for building a concrete sea-wall, removing sheet piling, etc., at the Ludlam Beach Light-Station, Sea Isle City, N. J. (Advertised, Engineering News.)

TIMBER LAND.—Scranton, Miss.—On March 30, noon, the property known as the "Asylum lot," located near Scranton, will be sold at public auction. It contains about 72 acres, covered with long leaf yellow pine timber, fronting on Pascagoula Bay about 922 ft. Maj. Henry Jervey, Corps of Engrs., U. S. A., Mobile, Ala. (Advertised, Engineering News.)

DOCK.—Toronto, Ont.—Bids are asked by F. Cochrane, Minister of Lands, Forests and Mines, Toronto, until noon, March 1, for construction of a dock and approach at Rondeau Provincial Park, Kent County, Ontario. Bidders are required to name the price per linear foot at which they will do the necessary dredging. Work is to be completed by July 15.

DITCH.—Monticello, Ind.—Contract for constructing six sections of Hoagland ditch have been awarded as follows: To STERNBERG & SONS, of South Bend, for Sections 1, 3 and 4, containing 1,313,477 cu. yds., at a total of $120,525; and to W. E. FOX & CO., of Wolcott, for Sections 5 and 6, containing 182,994 cu. yds., at $32,382, and to same contractor for Section 2, which is all tile drain, including branches 1 and 2, at $7,238.

STEEL BARS.—Mitchell, Neb.—The Secretary of the Interior has awarded contract for furnishing about 125,000 lbs. of steel bars for reinforcement of concrete, about 16,000 lbs. of structural steel, and about 50,000 lbs. of c.-i. gates, guides, stands, etc., for the North Platte irrigation project, Neb.-Wyo., as follows: Schedule 1, structural and reinforcing steel, to the MINNEAPOLIS STEEL & MACHINERY CO., 28th and Minnehaha Sts., at $4,881; f. o. b. cars at Whalen, Wyo.; Schedule 2, c.-i. gates, guides, stands, etc., to the VULCAN IRON WORKS, 80 North Clinton St., Chicago, Ill., at $4,161.

LIGHT VESSELS.—Washington, D. C.—Bids were opened Feb. 21 at the office of the Light House Board, Washington, D. C., for construction and delivery of single screw light vessels Nos. 82 and 89, delivery to be made at Charlevoix, Mich.; Detroit, Mich., or Tompkinsville, Staten Island, N. Y. The available appropriation for No. 82 is $28,000 and for No. 89 is $45,000. Bids were as follows: Racine Boat Mfg. Co., Muskegon, Mich., $37,500 each, at Charlevoix; $37,750 each, at Detroit; $39,500 each, at Tompkinsville. Pusey & Jones, Wilmington, Del., $45,524 for one vessel; $44,400 each, for two vessels, at Charlevoix or Detroit; $3,000 less for Tompkinsville delivery.

DREDGING.—New York, N. Y.—The following are the bids opened on Feb. 13 by Col. D. W. Lockwood, Corps Engrs., U. S. A., for dredging in Newtown Creek: (a) dredging per cu. yd., scow measurement; (b) boulders, per cu. yd., solid measurement, R. G. Packard Co., 130 Pearl St., N. Y. City, (a) and (b) 33⅓ cts.; Seely-Taylor Co., 78 Broad St., N. Y. City, (a) 31 cts., (b) $15.

Bids were opened same time and place for dredging in Peekskill Harbor; (a) dredging per cu. yd., scow measurement; (b) boulders per cu. yd., solid measurement: Du Bois Bros. Dredging Co., 17 Whitehall St., N. Y. City, (a) 20 cts., (b) $10; Newburgh Dredging Co., Newburgh, (a) 27½ cts., (b) $5; J. P. Randerson, Albany, (a) 34 cts., (b) $5; Seely-Taylor Co., 78 Broad St., N. Y. City, (a) 20 cts., (b) $15.

CAUSEWAY.—Galveston, Tex.—The Railroad Commission of Texas has issued an order requiring the railroads that enter the port of Galveston, Tex., to build a substantial causeway across Galveston Bay. The causeway is to be not less than 140 ft. wide, and will be about 10,840 ft. long, which is about the length of the present trestle used by the railroads. The cost of this causeway is estimated variously from $1,000,000 to $4,500,000, depending on the character of retaining walls used, the height to which it must be constructed, and the waterway that must be provided. This latter is subject to regulation by the Secretary of War. Plans have been prepared for a causeway, 140 ft. wide, containing five railroad tracks, a footpath, roadway, etc., by J. S. Stewart & Co., of New York, at the request of the city and county of Galveston. Their scheme contemplates putting down walls of sheet piling on each side and filling with sand from the bay. The slopes are to be protected with heavy granite riprap. A 100-ft. draw span is to be provided for boats, and about fifty 30-ft. concrete arches for passage of tidal waters, all at an estimated cost of about $1,750,000.

The railroads named in the order of the Railroad Commission are Gulf, Colorado & Santa Fe; the Galveston, Harrisburg & San Antonio; the Galveston, Houston & Henderson; the Missouri, Kansas & Texas; and the International & Great Northern. Plans and specifications for the structure must be submitted for the approval of the Commission by May 9, 1907. The City and County of Galveston may join with the railroads in building a structure sufficiently wide to accommodate roadways, etc. At the present time all of the railroads above named use a single track wooden trestle across Galveston Bay, built immediately after the destructive storm of 1900, which destroyed three railroad bridges and a wagon bridge. The commerce across the Bay has become so great that considerable delay to trains results, and the Commission considers that further facilities should be provided. At a recent hearing before the Commission a plan was submitted by the railroads for a causeway, 17 ft. above mean low tide (the high-water stage during the storm of 1900), 63 ft. wide on top, containing room for two railroad tracks and a 24-ft. roadway, with concrete retaining walls on each side; with a 100-ft. draw span; with 1,700 lin. ft. of 50-ft. reinforced concrete arches to provide for tidal waters, which was estimated to cost about $2,250,000. A causeway 140 ft. wide on this basis was estimated at $4,500,000.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

ELECTRIC PLANT.—Canal Zone.—The General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., contract for furnishing an engine, generator, and other material for doubling the capacity of the Culebra-Empire electric light plant. The aggregate bid of the General Electric Co. on all items was $21,646.

STEEL RAILS, ETC.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., has awarded to the UNITED STATES STEEL PRODUCTS EXPORTS CO., 24 State St., New York, contract for furnishing 4,000 gross tons 70-lb. steel rails, at $139,000; 25,000 steel splice bars, $10,650; and 235,000 tie-plates, $18,470. The Commission may decide to accept the alternate bid of the same company on Baltimore delivery; the prices quoted above are on Colon delivery. Time, 90 days.

STEAM-SHOVELS, ETC.—Panama.—Requisitions have been received from Panama by the Isthmian Canal Commission, Washington, D. C., calling for 22 steam-shovels, seven of 40 to 50-ton capacity, 15 of 95 to 100-ton capacity. No particular type is specified, as it is desired to secure bids from as many manufacturers as possible, and the specifications are intentionally very broad. A call has also been received for 108,000 ft. w.-i. pipe of various sizes. Specifications and proposal blanks for this material will be ready in a few days.

GLASS.—Panama.—Bids were opened Feb. 23 at the office of the General Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., for 2,942 boxes of window glass, in sizes from 16 × 24 ins. to 24 × 36 ins. The bids were as follows: R. W. Geldart, 4 Stone St., New York, $14,647; Handlan-Buck Mfg. Co., 210 North Third St., St. Louis, Mo., $14,647; Holbrook Bros., 89 Beekman St., New York, $15,814; John Lucas & Co., 322 Race St., Philadelphia, $17,139; Pittsburg Plate Glass Works, New York, $13,893; D. A. Van Horne Co., 467 Greenwich St., New York, $14,113.

AQUEDUCT AND SEWERS.—Cienfuegos, Cuba.—The New York "Tribune" states that the City Council of Cienfuegos has voted to rescind the contract and the loan of $3,000,000 for construction of an aqueduct and sewers, on the ground of the irregularities reported by the committee appointed to investigate the contract, which was authorized in the latter part of the administration of President Palma. The bonds for the loan were all subscribed for by American bankers. The contract for the construction of the Cienfuegos aqueduct and sewers was awarded in March, 1906, to Hugh J. Reilly, 22 East 21st St., New York, the amount of the contract being $2,300,000. Noted on March 15, 1906.

PIPE.—Panama.—Bids were opened Feb. 23 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for 44,000 ft. standard vitrified sewer pipe, 6-in., 8-in. and 10-in., and Y's, as follows: American Sewer Pipe Co., Pittsburg, $10,886; R. W. Geldart, 4 Stone St., New York, $11,643; Motley, Green & Co., 68 Broad St., New York, $10.346 (foreign); Robinson Clay Products Co., New York, $11,661; Southern Exporting Co., New Orleans, $7,401 (foreign); Stauffer, Eshleman & Co., New Orleans, $8,021 (foreign); William Wirt, Clarke & Co., Baltimore, $14,651; Evans & Howard Fire Brick Co., 920 Market St., St. Louis, $11,803; E. F. Keating Co., 452 Water St., New York, $15,081.

LUMBER.—Panama.—Bids were opened Feb. 23 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for about 1,800,000 ft. B. M., of oak and yellow pine lumber, divided into two classes, (1) oak; (2) pine; A. S. Bacon & Sons, Savannah, Ga., (1) $2,629; (2) $45,688; 90 to 150 days. Dixon Lumber Co., Savannah, Ga., (2) $34.50 per M., average; 120 days; (total, approximately, $40,800). G. Elias & Bros., Buffalo, N. Y., (1) $2,698; (2) $44,850; 120 days. Wm. D. Gill & Sons, Baltimore, Md., (1) $3,860; (2) $40,569; 120 days. D. L. Gillespie & Co., Pittsburg, (2) $47,042; 90 days. Southern Sawmill Co., New Orleans, (1) $3,317; (2) $42,917; 120 days. Ensign Lumber Co., Jacksonville, Fla., (2) $46,247, $43,883; 90 days; lowest bidder on "prime" yellow pine, which was called for by the Commission.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until 10.30 a. m., March 12, under Circular No. 353, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for a quantity of engineering supplies, as follows: Machines for machine shop—Combined rip and cut-off saw, combination band ripsaw and resaw machine, automatic-feed ripsaw machine, automatic railway cut-off saw, vertical car-boring machine, vertical hollow-chisel car mortising machine, automatic car gaining machine, two planing, matching and joining machines, hand planer and jointer, automatic planer-knife grinding machine, automatic band-saw filing and setting machine, band-saw sharpener, automatic circular saw sharpeners, dimension planer, three grindstones and frames, three steam hammers, two 2,500-lb. and one 800-lb.; 200 c.-i. enameled tanks, merchant bar-iron or soft-steel, 22,000 ft. chain, grindstones, corundum wheels, engine governors, steel balls, tire bolts, screws, solder, aluminum, fire clay, sea-coal facing, asbestos cement, wool and cotton waste, copper, antimony, rosin, sal ammoniac, sulphuric acid, nitric acid, tallow, oils, electrical supplies, wagons, dump carts, wagon parts, etc.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

HOSPITAL.—Italy.—Bids are asked by the Committee of the Palermo Hospital until 4 p. m., April 5, for construction of new hospital buildings at an estimated cost of 2,705,538 lire (about $514,052).

WATER-WORKS.—Argentina.—The "Dirección General de Obras de Salubridad de la Nacion" has been authorized to expend 617,388 pesos, national currency (about $595,770), on improving the water supply of the town of Catamarca.

WATER-WORKS.—Spain.—Bids are asked until March 12 at the "Casa Consistorial," Palencia, for the provision of a water supply in that town. Estimated cost, 497,305 pesetas (about $96,000). Deposit of 5% of this amount is required to qualify any bid. Local representation is necessary.

RAILWAY.—Italy.—The Cremona & Borgo San Donnino Ry. Co. has been authorized to construct a railway (steam traction) between Fornovo and Borgo San Donnino. The cost of construction is estimated at 6,331,000 lire (about $1,203,000), and of provision of rolling stock at 469,700 lire (about $90,000).

RAILWAY CONSTRUCTION, ETC.—Italy.—The "Societa Anonima di Costruzioni Ferroviare e Meccaniche," of Florence, has been formed with a capital of $120,000, which may be increased to $1,000,000, for the construction and repair of rolling stock, rails and other material for railways and tramways, also for the manufacture of agricultural and industrial machinery.

PUBLIC WORKS.—Gold Coast, West Africa—An ordinance has been enacted by the Government of the Gold Coast Colony, to make provision for a loan for $6,471,780 to be devoted to the following public works: Equipment and completion of Sekondi-Kumasi railway ($4,218,822); Accra harbor works ($476,868); Accra railway ($1,459,800); Sekondi harbor works ($316,290).

TELEPHONE CABLE.—Western Australia.—Bids are asked until noon, March 25, by the Deputy Postmaster-General, Perth, Western Australia, for the supply and delivery, at Perth, of lead-covered paper-insulated telephone cable, as follows: two miles of 208 pairs (20-lb. conductors). 110 yds of 156 pairs (20-lb. conductors). 660 yds. of 104 pairs (20-lb. conductors). 880 yds. of 52 pairs (20-lb. conductors).

WATER-WORKS.—New South Wales.—Steps will be taken at Broken Hill for a scheme to provide a supplementary water supply for the mines and the municipality, at an estimated cost of from $725,000 to $850,000. The Corporation is to apply to Parliament for the necessary powers, and the mines are to supply the money. The latter have appointed T. W. Fowler to report on the whole proposal.

ELECTRIC RAILWAY. — Portugal. — Bids are asked by the Municipality of Braga for the construction and working of electric tramways in that town. A deposit of 5,000 milreis (about $5,400) is required to qualify any bid. The conditions of contract (in Portuguese) may be inspected at the offices of the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall St., London, E. C., England.

TEXTILE MACHINERY.—Italy.—A company will be formed at Bari, under the direction of Signori Tommaso Columbo, Michelangelo Bovino, and Mauro Amoroso, for the establishment of a cotton mill in that town. The capital is fixed at 1,200,000 lire (about $228,000), the capacity of the mill being 12,000 spindles. If this enterprise should prove successful, it is proposed to establish a weaving mill in the same locality.

TELEPHONE AND TELEGRAPH MATERIAL.—South Australia.—Bids are asked until noon, March 6, by the Deputy Postmaster-General, at Adelaide, for the supply of telegraph and telephone material, including 500 transmitters, three miles of cable, 20 miles of copper wire, etc. Specifications and samples can be seen, and forms of bid obtained at the General Post-offices, Adelaide, Melbourne, Sydney, and Brisbane.

TEXTILE MACHINERY.—Italy.—The formation of a company with a capital of 1,200,000 lire ($240,000) is contemplated for a cotton-spinning establishment at Plaisance with a preliminary installation of 12,000 spindles. Thomas Columbo, Michelange Buonvicino and Mauro Amoruso have the project in hand. The "Filature Lombarde" of Milan have decided on starting a new flax spinning mill at Pontevico (Brescia).

ELECTRIC TRAMWAYS.—South Australia.—An act has been passed by the Government of the State of South Australia authorizing the purchase by the State of certain tramways, and the creation of a municipal tramways trust for constructing and working tramways, etc. This act provides also for the electrification, within three years from Dec. 31, 1906, of the main lines of tramways in and around Adelaide, and for the subsequent extension of the system of electrification.

PUBLIC WORKS.—Chile.—A law has been approved by the Chamber of Deputies, formulating measures to repair the damage caused in Valparaiso by the earthquake of Aug. 16, to secure that city against floods, and to improve its sanitary condition. The cost of these measures is to be met by (1) a Government grant of about $7,500,000, to be raised by means of a loan; (2) contributions from the owners of property on the routes where improvements are to be made; (3) the sale of such expropriated land as is not required for roads, etc.; (4) a contribution from the municipality of Valparaiso, which is authorized to raise a loan for this purpose.

A measure providing for the expenditure of 2,000,000 pesos (about $720,000) on rebuilding the Government buildings destroyed by the recent earthquake at Valparaiso has been approved by both Houses of Parliament.

PORT IMPROVEMENTS.—Denmark.—The Danish Government has introduced a bill to authorize the enlargement of the port of Esbjerg. Up to the present the port could only be used by vessels drawing up to 19 ft.; it is now proposed to make part of it accessible to vessels drawing [illegible] ft. and another part to vessels drawing [illegible] ft. The quay will be extended from its present length of 2,000 ft. to a length of 3,600 ft., and increased accommodation will be provided for the fishing industry. The total cost is estimated at 5,500,000 crowns (about $1,430,000.)

RAILWAY.—Belgium.—Bids are asked until March 6 by the "Societé national des chemins de fer vicinaux," at [illegible] Rue de la Science, Brussels, for the construction of the section from Aertrijck to Leke of the Bruges-Leke-Dixmude local railway. The estimated cost of the work is 187,378 frs. ($36,163), and a deposit of 19,000 frs. ([illegible]) is required to qualify any bid. Bids by registered letter will be received at the address mentioned above not later than March 5. A copy of the specifications may be obtained on payment of 1 fr. from M. Van Aken, rue Charles-le-Bon, Bruges.

RAILWAYS.—Tunis.—A project of law, authorizing the Government of Tunis to raise a loan of 75,000,000 frs. (about $15,000,000) to promote measures for the industrial development of that country, is under the consideration of the Commission of Foreign and Colonial Affairs. It is proposed to apportion this sum as follows: 30,000,000 frs. (about $6,000,000) for the completion of the existing railway system; 28,000,000 frs. (about $5,600,000) for the construction of new railways; 12,000,000 frs. about $2,400,000) for road construction; and 5,000,000 frs. (about $1,000,000) for the purchase of lands for colonization.

QUAY WALL, ETC.—Belgium.—Bids are asked by the municipal authorities of Antwerp for the construction of a quay wall and other works at the West Quay (Nos. 30 and 31) of the Asia Dock, at an estimated cost of 1,345,200 francs (about $259,623). The specification (cahier des charges, No. 1,182) and the plans relating to the contract, may be obtained from the Hôtel de Ville, price 3 francs and 20 francs respectively. Bids, addressed as above, should reach the Hôtel de Ville not later than March 5 (a postponement from Feb. 18). A deposit of 70,000 francs ($13,510) is required to qualify any bid.

POWER DEVELOPMENT.—Italy.—Water power concessions have been granted as follows: to the electric railway company of the Valle Brembana, Bergamo, from the River Brembo, to be converted into electric energy for use on the Bergamo—S. Giovanni Bianco Railway. To Maltei Umberto and Boni Carlo, of Settimio, Pisa, from the River Cascina at Ponsacco. To the electric company Charles Zanchi & Co., of Bergamo, from the Vanzarolo torrent at Rota Dentro.

The Provincial Council of Naples has approved a scheme, involving an expenditure of $1,900,000, for the derivation of water power from the Volturno, in the province of Campobasso, transforming it into electric energy for use in Naples.

RAILWAYS, ELECTRIC LIGHTING.—Finland.—The Helsingfors "Mercator" reports that the proposals of the Landtag for the construction of certain railways have received Imperial sanction. They include the following: (1) a line in East Finland from Joensuu to Nurmes via Uimaharju and Lieksa; (2) a connection, in the North, between Kemi and Rovaniemi, linking Lappland with the Gulf of Bothnia; (3) a line from Seinäjoki to Kristinestad and Kaskö, which will connect the last named towns with the Finnish railway system.

According to the same paper, the towns of Lovisa, Nyslott and Nystad intend to introduce electric lighting systems, and in the spring will invite bids from electrical firms working in the country.

PUBLIC AND PRIVATE WORKS.—Australia.—It is announced that the Government of Western Australia, at Perth, will carry out the following public works during 1907: Railway expenditures, $2,548,770; water supply and sewerage, $910,385; development of gold fields and mineral resources, $459,397; development of agriculture, $534,142; public buildings, $412,192. The city of Perth is rapidly growing. The building surveyor gives the total value of the buildings erected during the twelve months ended June 30 as $1,289,600, of which warehouses accounted for $803,000. Bids are to be called for buildings to the value of $500,000 within the next few months.

The Government of Victoria has introduced into the State Parliament, at Melbourne, bills for the expenditure of $3,552,000 on railway works, $1,216,000 on irrigation and water supply, $1,000,000 for improvement of crown lands, and $350,000 for tramways.

WATER-WORKS. — Cape Colony. — The "Daily Consular and Trade Reports" of the Department of Commerce and Labor, states that "a vast water-works scheme is about to be undertaken in Cape Colony, South Africa, by the government. Already $75,000 have been spent in services of engineers, surveys, plans, rights-of-way, and other preliminary steps. It covers a distance of about 40 miles from Paarl, where the water is to be obtained, by piping to Cape Town and adjacent towns. The scheme contemplates the expenditure of about $900,000 under one plan, about $1,100,000 under another, and $1,600,000 under another. The debentures to be floated for paying for this scheme may interest American capitalists. Pumping apparatus, engines, boilers, pipe and other essentials will be needed in carrying out the plan, further particulars of which can be ob-

tained from the Bureau of Manufactures, Dept. of Commerce and Labor, by American firms desiring to compete.

STREET RAILWAY AND ELECTRIC PLANT EQUIPMENT.—Vladivostok.—Roger S. Greene, U. S. Consul at this place, referring to a previous report, published in full in the issue of Nov. 1, in regard to the improvements planned at Vladivostok, Siberia, now writes as follows: "The municipality has determined to undertake by itself the construction of the electric street railway and light and power plant. No definite project has yet been adopted, but an engineer has been appointed to prepare plans and estimates. The present intention seems to be not to give a contract for the whole to one firm, but to buy the necessary material from a number of different parties. Persons interested in any kind of street railway and electrical supplies, from dynamos and rails to patent fare registers, etc., should therefore send prices catalogues to the Mayor of Vladivostok and catalogues with prices and other pertinent information either by their own representative or to some local house. The principal German electrical companies have already on the ground experienced representatives, who know the local conditions thoroughly, and, of course, American manufacturers cannot expect to compete satisfactorily with them in this business unless they also are prepared to send here trained men speaking Russian, if possible, and if not, German. Without special effort no orders, except perhaps a few odds and ends, can possibly be obtained. A circumstances to be considered is that experience and a good reputation won here may be of tremendbus value in the future as other towns in Siberia develop, which, under the new and freer conditions, they are bound to do. Certain material is, I am told, wanted immediately, for which prices and full information should be sent without delay, as the matter is very urgent. This is: (1) Rails ("Phoenix" type, with groove for flange of car wheel), a small lot needed to lay on a section of the streets where a new paving is soon to be put down; two grades wanted: (a) rails weighing 42.4 kilograms to the meter, quantity required 68,000 poods, i. e., 2,455,616 lbs. If this weight cannot be supplied, rails weighing up to 45 kilograms per meter may be substituted; (b) rails weighing 33.5 kilograms to the meter, quantity required 22,000 poods, i. e., 794,464 lbs. If not obtainable, rails weighing up to 35 kilograms per meter may be substituted. (2) Twenty closed cars, having 18 or 20 seats inside and standing room for six persons on each platform, with two motors, each of 20 HP. and adapted to direct current of 500 volts. The local American houses which might assist American manufacturers in this matter are Clarkson & Co., and the Vladivostok branch of the Pacific Commercial Co., of San Francisco. As the question of water-works will also come up before long, I would suggest that manufacturers of supplies which would be required for such an undertaking make arrangements with some local firm to keep in readiness the necessary information so that when the favorable moment comes prices can be obtained by telegraph and a definite proposal submitted without delay. To show the necessity of being forehanded and not waiting for a public advertisement for bids which may never come, I may add that a contract for a municipal telephone system was recently awarded to the Russian branch of a German firm before it was commonly known that such a project was on foot. The annual subscription for a single instrument is to be $38.62."

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWERAGE.—Charleston, W. Va.—Bids, in detail, were received on Feb. 16, as follows, for building approximately seven miles of terra cotta pipe, reinforced concrete and brick sewers, ranging in diameter from 8" to 72". (AA) T. H. Bowman; (BB) C. T. McCrackin & Co.; (CC) Pfaff & Smith.

Reinforced concrete sewer, 78" in diameter: (AA) only bidder: 4' to 6' deep, $10; 6' to 8' deep, $11; 8' to 10' deep, $12; 10' to 12' deep, $14; 12' to 16' deep, $15.

Reinforced concrete sewer, 72" in diameter: 6' to 8' deep, 110 lin. ft.: (AA) $10; (BB) $8; (CC) $7. 8' to 10', 500 lin. ft.: (AA) $10.50; (BB) $8.20; (CC) $7.50. 10' to 12', 740 lin. ft.: (AA) $11; (BB) $8.90; (CC) $9. 12' to 16', 1,520 lin. ft.: (AA) $12.50; (BB) $9.17; (CC) $9.57. 16' to 20', 363 lin. ft.: (AA) $15; (BB) $11.37; (CC) $10.75.

Brick sewer, 72" in diameter: 20' to 24' deep, 880 lin. ft.: (AA) $17; (BB) $17.75; (CC) $17.90. 24' to 28', 700 lin. ft.: (AA) $19; (BB) $20.37; (CC) $20.25. 28' to 32', 150 lin. ft.: (AA) $21; (BB) $25.12; (CC) $27.

Reinforced concrete sewer, 66" in diameter: 8' to 10' deep, 70 lin. ft.: (AA) $10; (BB) $7.45; (CC) $7. 10' to 12', 100 lin. ft.: (AA) $10.50; (BB) $8.31; (CC) $8.50. 12' to 16', 300 lin. ft.: (AA) $12; (BB) $9.22; (CC) $9.

Reinforced concrete sewer, 60" in diameter: (AA) only bidder: 8' to 10' deep, $10; 10' to 12', $12; 12' to 16', $13; 16' to 20', $16.

Reinforced concrete sewer, 54" in diameter: 10' to 12' deep, 170 lin. ft.: (AA) $11; (BB) $6.90; (CC) $7. 12' to 16', 120 lin. ft.: (AA) $15; (BB) $7.66; (CC) $7.75. 16' to 20', 100 lin. ft.: (AA) $20; (BB) $9.16; (CC) $9.50. 20' to 24', 80 lin. ft.: (AA) $22; (BB) $13.48; (CC) $13.52.

Brick sewer, 48" in diameter, and alternative reinforced concrete sewer, 48" in diameter: [(AA) and (BB) submitted bids on both brick and concrete sewers, the price for either material being the same; (CC) bid on brick only.] 4' to 6', 100 lin. ft.: (AA) $5.20; (BB) $5.64; (CC) $5.65. 6' to 8', 150 lin. ft.: (AA) $5.70; (BB) $5.90; (CC) $6.40. 8' to 10', 720 lin. ft.: (AA) $6; (BB) $6.04; (CC) $7.20. 10' to 12', 1,216 lin. ft.: (AA) $7.30; (BB) $6.40; (CC) $7.60. 12' to 16', 1,150 lin. ft.: (AA) $7.80; (BB) $7.71; (CC) $7.70. 16' to 20', 130 lin. ft. (AA) $11.50; (BB) $8.91; (CC) 8.50. 20' to 24', (AA) $13.50; 24' to 28', (AA) $16.

Brick sewer, 42" in diameter, and alternative reinforced concrete sewer, 42" in diameter: [(AA) and (BB) submitted bids on both brick and concrete sewers, the price for either material being the same; (CC) bid on brick only.] 4' to 6', 150 lin. ft.: (AA) $4.70; (BB) $4.94; (CC) $4.50. 6' to 8', 150 lin. ft.: (AA) $5.10; (BB) $5.11; (CC) $4.80. 8' to 10', 420 lin. ft.: (AA) $5.50; (BB) $5.72; (CC) $5.80. 10' to 12', 244 lin. ft.: (AA) $6.20; (BB) $6.18; (CC) $6.10. 12' to 16', 820 lin. ft.: (AA) $7.10; (BB) $6.76; (CC) $7.40. 16' to 20', 200 lin. ft.: (AA) $8.10; (BB) $8.06; (CC) $8.50.

45" in diameter 7' to 12', 1,200 lin. ft.: Brick—(AA) $5.60; (BB) $6.76; (CC) $6.80. Concrete—(AA) $5.60; (BB) $6.76; (CC) $7.

Brick sewer, 39" in diameter, and alternative reinforced concrete sewer, 39" in diameter: Brick or concrete—4' to 6', (AA) $5.50. 6' to 8', (AA) $6. 8' to 10', (AA) $6.20. 10' to 12', 320 lin. ft.: (AA) $6.40; (BB) $5.59; (brick only) (CC) $5.75. 12' to 16', 320 lin. ft.: (AA) $6.70; (BB) $6.24; (brick only) (CC) $6.15.

Brick sewer, 36" in diameter, and alternative reinforced concrete sewer, 36" in diameter: (AA)—Single ring: brick or concrete, up to 4', $4. Single ring: 4' to 6': brick, $4.10; concrete, $4.25. Single ring: 6' to 8': brick, $4.30; concrete, $5.10. Single ring: 8' to 10', 120 lin. ft.: Brick—(AA) $4.50; (BB) $2.80 or $4 for terra cotta; (CC) $2.50. Concrete—(AA) $5.30; (BB) $4.20. Double ring: 10' to 12', 138 lin. ft.: Brick—(AA) $5.70; (BB) $5.46 or $5.36 for terra cotta; (CC) $5.42. Concrete—(AA) $5.70; (BB) $5.60. Double ring: 12' to 16', 530 lin. ft.: Brick—(AA) $6.30; (BB) $6.16 or $6.06 for terra cotta; (CC) $6.40. Concrete—(AA) $6.30; (BB) $6.36. (AA)—Double ring: 16' to 20', brick or concrete, $7.70; 20' to 24', brick or concrete, $8.70; 24' to 28', brick or concrete, $10.

Brick sewer, 30" in diameter, and alternative reinforced concrete sewer, 30" in diameter: (AA)—Single ring, up to 4': brick, $3; concrete, $3.50. Single ring, 4' to 6': brick, $3.20; concrete, $3.70. Single ring, 6' to 8', 100 lin. ft.: brick—(AA) $3.30; (BB) $2.03 or $2.43 for terra cotta; (CC) $2. Concrete—(AA) $3.80. Single ring, 8' to 10', 1,070 lin. ft.: brick—(AA) $3.50; (BB) $2.08 or $2.48 for terra cotta; (CC) $2.10. Concrete—(AA) $4.20. Single ring, 10' to 12', 840 lin. ft.: brick—(AA) $4; (BB) $2.51 or $2.91 for terra cotta; (CC) $2.50. Concrete—(AA) $4.80. Single ring, 12' to 16', 252 lin. ft.: brick—(AA) $5.10; (BB) $3.47 or $3.87 for terra cotta; (CC) $3.40. Double ring, 16' to 20', brick or concrete, (AA) $6.10.

2' 4" × 3' 6" double ring brick sewer: (AA)—10' to 12' deep, $5.90; 12' to 16', $6.30; 16' to 20', $7.70; 20' to 24', $8.70. Same, 2' 2" × 3' 3": (AA)—10' to 12' deep, $5.70; 12' to 16', $6.20.

Terra cotta pipe, 24" in diameter: Up to 4' deep, 100 lin. ft.: (AA) $1.50; (BB) $1.80; (CC) $1.75. 4' to 6', 125 lin. ft.: (AA) $2; (BB) $2.02; (CC) $2. 6' to 8', 160 lin. ft.: (AA) $2.20; (BB) $2.31; (CC) $2.25. 8' to 10', 850 lin. ft.: (AA) $2.30; (BB) $2.45; (CC) $2.50. 10' to 12', 610 lin. ft.: (AA) $2.50; (BB) $2.57; (CC) $2.60. 12' to 16', 100 lin. ft.: (AA) $3.80; (BB) $2.80; (CC) $2.75.

Terra cotta pipe, 20" in diameter: 4' to 6' deep, 80 lin. ft.: (AA) $1.60; (BB) $1.67; (CC) $1.50. 6' to 8', 200 lin. ft.: (AA) $1.70; (BB) $1.87; (CC) $1.75. 8' to 10', 200 lin. ft.: (AA) $1.80; (BB) $1.99; (CC) $2. 10' to 12', 120 lin. ft.: (AA) $2; (BB) $2.23; (CC) 2.25. 12' to 16', 550 lin. ft.: (AA) $2.20; (BB) $2.65; (CC) $2.80.

Terra cotta pipe, 18" in diameter: Up to 4' deep, 160 lin. ft.: (AA) $1.10; (BB) $1.30; (CC) $1.15. 4' to 6', 220 lin. ft.: (AA) $1.20; (BB) $1.35; (CC) $1.25. 6' to 8', 160 lin. ft.: (AA) $1.40; (BB) $1.55; (CC) $1.40. 8' to 10', 140 lin. ft.: (AA) $1.60; (BB) $1.70; (CC) $1.75. 10' to 12', 740 lin. ft.: (AA) $1.70; (BB) $1.96; (CC) $2. 12' to 16', 500 lin. ft.: (AA) $2; (BB) $2.36; (CC) $2.40. 16' to 20', 390 lin. ft.: (AA) $2.70; (BB) $2.93; (CC) $2.90.

Terra cotta pipe, 15" in diameter: Up to 4' deep, 160 lin. ft.: (AA) 70 cts.; (BB) 89 cts.; (CC) $1. 4' to 6', 150 lin. ft.: (AA) 90 cts.; (BB) $1.00; (CC) $1.10. 6' to 8', 320 lin. ft.: (AA) $1.10; (BB) $1.29; (CC) $1.20. 8' to 10', 500 lin. ft.: (AA) $1.20; (BB) $1.53; (CC) $1.60. 10' to 12', 600 lin. ft.: (AA) $1.30; (BB) $1.89; (CC) $1.90.

Terra cotta pipe, 12" in diameter: 6' to 8' deep, 250 lin. ft.: (AA) 90 cts.; (BB) $1.04; (CC) $1. 8' to 10', 2,220 lin. ft.: (AA) $1; (BB) $1.04; (CC) $1.10. 10' to 12', 2,565 lin. ft.: (AA) $1.10; (BB) $1.48; (CC) $1.51.

Terra cotta pipe, 10" in diameter: 6' to 8' deep, 110 lin. ft.: (AA) 90 cts.; (BB) 67 cts.; (CC) 70 cts. 8' to 10', 140 lin. ft.: (AA) $1; (BB) 87 cts.; (CC) 75 cts. 10' to 12', 100 lin. ft.: (AA) $1.10; (BB) $1.07; (CC) $1.

Terra cotta pipe, 8" in diameter: 6' to 8' deep, 850 lin. ft.: (AA) 70 cts.; (BB) 55 cts.; (CC) 50 cts. 8' to 10', 3,000 lin. ft.: (AA) 70 cts.; (BB) 90 cts.; (CC) 75 cts. 10' to 12', 265 lin. ft.: (AA) 90 cts.; (BB) $1.10; (CC) $1. 12' to 16', 500 lin. ft.: (AA) $1.20; (BB) $1.40; (CC) $1.40.

540 slants in brick and concrete sewers: (AA) $1 each; (BB) 30 cts.; (CC) 35 cts.

Y-branches—35, in 24" sewer: (AA) $4; (BB) $2.54; (CC) $3.75. 40, in 20" sewer: (AA) $2.60; (BB) $1.80; (CC) $2.25. 70, in 18" sewer: (AA) $2; (BB) $1.20; (CC) $1.75. 30 in 15" sewer: (AA) $1.60; (BB) $1.10; (CC) $1.50. 150, in 12" sewer: (AA) $1; (BB) 87 cts.; (CC) $1.20. 20, in 10" sewer: (AA) 60 cts.; (BB) 56 cts.; (CC) 75 cts. 150, in 8" sewer: (AA) 50 cts.; (BB) 40 cts.; (CC) 52 cts.

1,137 vertical ft. manholes, including covers, brick: (AA) $4.50; (BB) $3.25; (CC) $3.40. 98 manhole frame and cover sets, cast iron: (AA) $15; (BB) $10; (CC) $12. 30 manhole buckets, galvanized iron: (AA) $8; (BB) $3.25; (CC) $1.50. Three lampholes, including cast-iron covers: (AA) $10; (BB) $15; (CC) $15.

Twelve flush tanks, complete: (AA) $90 each; (BB) $100; (CC) $107.50. 12 flush tank covers, frames, cast iron: (AA) $15; (BB) $10; (CC) $12. 65 corner inlets, including connecting pipe: (AA) $80; (BB) $80; (CC) $75. 75 side inlets, including connecting pipe: (AA) $70; (BB) $70; (CC) $75. 48 grate inlets, including connecting pipe: (AA) $50; (BB) $60; (CC) $67.50.

Rock excavation, 500 cu. yds.: (AA) $3; (BB) $3; (CC) $3. Time, $25 per day: (AA) $300; (BB) $250; (CC) $300.

Total bid: Without time—(AA) $188,183; (BB) $174,032; (CC) $185,947. With time—(AA) $195,683; (BB) $180,282; (CC) $193,447.

GRADING.—Seattle, Wash.—Two bids were received for the improvement of Eastlake Ave., from Almy St. to Twelfth Ave. North, by grading the same, and contract was awarded to HAWLEY & LANE, of Seattle, on the following estimate of quantities and prices. The bidders were (A) Hawley & Lane, and (B) D. C. McCarty, Seattle. Work will be commenced at once, and will be completed in about one year. Mostly steam shovel work:

	(A)	(B)
Fixed estimate	$2,000.00	$2,000.00
Clearing and grubbing, lump sum	3,000.00	3,000.00
82,000 cu. yds. earthwork	.48	.55
140 M. ft. B.M. curbs, etc.	27.00	30.00
4 catch basins, 2 inlets	75.00	80.00
19 catch basins, 1 inlet	60.00	60.00
4 single inlets	25.00	40.00
20 lin. ft. 8" pipe sewer	1.00	1.00
147 M. ft. B.M. lumber bulkhead	27.00	30.00
29,500 lbs. iron bulkhead	.10	.10
1,000 lin. ft. railing	.10	.20
Total	$56,719	$63,500

*UNDERGRADE CROSSING.—Williamsport, PA.—Bids were received by J. J. Galbraith, City Clerk, as follows, on Feb. 11, for construction of an undergrade crossing under the P. & E. R. R. tracks at Campbell St. James F. Fisher, City Engr. (A) Wilkes-Barre Construction Co., Wilkes-Barre, Pa.; (B) Harman Bros., Reading, Pa.; (C) Reimard & Higgins, Bloomsburg, Pa.; (D) H. B. & B. E. Failing, Fulton, N. Y.; (E) Busch & Stewart, Williamsport, Pa.: (F) ROGERS BROS., Albion, Pa.; (G) Pennsylvania Steel Co., Steelton, Pa.:

BIDS RECEIVED ON FEB. 11 FOR UNDERGRADE CROSSING, AT WILLIAMSPORT, PA.

435,000 lbs. steel for the complete bridge without steel trough, concrete, brick or hydrex felt, waterproofing, but including floor beams and stringers: (B) 4 cts. a lb.; (C) 4.75 cts.; (D) 5 cts.; (F) 4 cts.; (G) 4.2 cts.

585,000 lbs. steel for the complete bridge as shown on plans, including steel troughs, concrete, brick and hydrex felt waterproofing: (B) 4.9 cts.; (C) 4.75 cts.; (D) 5.3 cts.; (F) 4 cts.; (G) 4.85 cts.

Waterproofing: (C) $1,700; (F) $2,100.

	(A)	(B)	(C)	(D)	(E)	(F)
530 cu. yds. of concrete, 1:2:5, for abutments and wing wall, including forms and excavation fully completed for acceptance by P. R. R. Co.	$10.00	$10.35	$11.00	$25.00	$11.00	$9.00
380 cu. yds. concrete, 1:3:5, for foundations, including forms and excavations complete for acceptance by P. R. R. Co.	10.00	9.91	11.00	24.00	10.50	7.50
70 cu. yds. concrete, 1:3:5, including forms and excavations for earth retaining walls	10.00	9.91	11.00	9.80	10.50	7.00
220 ft. 4', 2-ring brick sewer; average cut, 6 ft.; laid complete, with all connections	9.00	5.75	6.00	10.00	6.25	5.00
100 ft. 24" r. c. pipe sewer; average cut, 6 ft.; laid complete	3.00	1.70	1.50	2.83	2.00	2.50
100 ft. 15" r. c. pipe sewer; average cut, 6 ft.; laid complete	2.00	1.17	1.25	1.47	1.20	2.00
Two manholes, including top and cover; average cut, 9 ft.; complete, each	60.00	37.50	40.00	100.00	45.00	40.00
14,000 sq. ft. cement sidewalk per specifications and plans	.25	.17	.16	.20	.16	.14
400 ft. 6" drain tile placed under sidewalk and connected with manhole	.25	.12	.11	.14	.14	.05
400 sq. yds. brick paving on 6" Portland cement concrete foundation	2.50	1.82	1.80	4.50	1.80	1.90
500 cu. yds. excavation, grading street	1.50	.60	.75	1.50	.75	.60
220 lin. ft. granite dressed stone for bridge seat, 2' × 2' × 6'	5.00	8.00	7.00	15.00	7.75	6.50
20 blocks cut stone, 2' 6" × 2' 6" × 2', column-bearing stone, each in place	6.00	15.00	8.00	53.00	10.00	5.00
600 ft. 1½" gas pipe placed as directed by the engineer	.25	.24	.25	.21	.40	.15
Removal of present abutments, using same as facing for new abutments, complete for stone masonry, per cu. yd.	Removal only 1.00	20.00	19.00	50.00	20.00	6.00
Concrete backing, 1:3:5, to be used in addition to stone facing abutments in place, per cu. yd.	10.00	15.00	15.00	10.00	10.00	9.00
Totals	$19,120	$17,232	$17,684	$35,778	$17,876	$14,400

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

SEWER PIPE.—Youngstown, N. Y.—A. J. Servis & Son, Youngstown, N. Y., are in the market for sewer pipe.

ROCK SAWS, ETC.—Scottsbluff, Neb.—Frank Duff, Scottsbluff, Neb., is in the market for saws for sawing soft rock.

TRAP ROCK.—Lakewood, Ohio.—Thomas W. Nicholson, Lakewood, Ohio, desires to communicate with firms supplying trap rock.

CATALOGUES. — Louisville, Ky. — The Holmboe Co., Tyler Bldg., Louisville, Ky., desires catalogues pertaining to steel and reinforced concrete construction.

COAL HANDLING MACHINERY. — New York, N. Y.—We are in receipt of a letter from the Worcester Salt Co., 168 Duane St., New York, stating that it is in the market for coal handling machinery.

BRIQUETTING MACHINERY. — Wellington, New Zealand.—B. A. Hansen & Co., Timber Merchants, Wellington, N. Z., are desirous of communicating with firms manufacturing machinery for manufacturing briquettes, or patent fuel, from sawdust.

CIVIL SERVICE EXAMINATIONS

DEPUTY FOREST SUPERVISOR—Alaska.—An examination is announced by the U. S. Civil Service Commission on March 20, to secure eligibles to fill two vacancies in the position of Deputy Forest Supervisor in Alaska, at $1,500 a year each, and similar vacanceis as they may occur in Alaska. Age limit, 20 to 40 years. Application form, 1093.

APPRENTICE TOPOGRAPHIC DRAFTSMAN——Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on March 6, to secure eligibles to fill a vacancy in the position of draftsman, at $700 a year, in the Coast and Geodetic Survey, Washington, D. C., and vacancies as they may occur in any branch of the service requiring similar qualifications. Age limit, 17 to 20 years. Application form, 304.

DRAFTSMAN AND SURVEYOR.—Hawaii.—The U. S. Civil Service Commissioff announces an examination on March 20-21 to secure eligibles to fill a vacancy in the position of Draftsman and Surveyor, $150 a month, Office of the Assistant Engineer, Twelfth Light-House District, Honolulu, Hawaii, and vacancies as they may occur in any branch of the service requiring similar qualifications. The person appointed to the specific vacancy mentioned will be required to pay his traveling expenses to Honolulu. Age limit, 20 years. Application form 1,312.

ENGINEERS—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 6, to secure eligibles to fill vacancies as the result of examination in Branch 1, steam engineering, and vacancies as they may occur in the Indian Service in the following engineering positions: Engineer, $720 a year, Fort Peck Agency, Mont. Engineer, qualified in acetylene and gasolene gas, $800 a year, Carson, Nev. For this position it is desired to secure an engineer who has had experience in the use of acetylene and gasolene gas, which experience must be shown in the application. Engineer, qualified in gasolene gas lighting system, $720 a year, Arapahoe, Okla. For this position it is desired to secure an engineer who has had experience in the managment of a gasolene gas lighting system, which experience must be shown in the application blank. Salaries, $480 to $1,000 a year. The majority of appointments, however, are made at salaries of $720, $840 and $900 a year. Age limit, 20 years. Application form, 1093.

TOPOGRAPHIC AND CARTOGRAPHIC DRAFTSMAN.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on March 13-14 to secure eligibles to fill at least three vacancies in the position of Topographic and Cartographic Draftsman, at $1,000 a year, in the office of the Chief of Staff, War Department, and vacancies as they may occur in any branch of the service requiring similar qualifications. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. Age limit, 20 years. Application form 1,312.

DRAFTSMEN.—Washington, D. C.—The U. S. Civil Service Commission announces examinations on March 13-14 to secure eligibles to fill seven vacancies in the position of Junior Architectural Draftsman in the Supervising Architect's Office, at salaries ranging from $840 to $1,000 a year, and several vacancies in the positions mentioned as they may occur during the period of eligibility, at the salaries indicated: Architectural Draftsman (male), $1,400 to $1,800 a year; Junior Architectural Draftsman (male), $840 to $1,200 a year; Engineer Draftsman (male), $1,600 to $1,800 a year; Heating and Ventilating Draftsman (male), $1,200 to $1,600 a year. Age limit, 20 years. Application form 1,312.

INDUSTRIAL NOTES.

THE LINK-BELT CO. has acquired a new office location at 84 State St., Boston.

ERNEST KOERTING reports that he has purchased the entire interest in the Schutte & Koerting Co.

THE NUBIAN PAINT AND VARNISH CO. has established New York office at 41 Park Place, with Mr. W. Van R. Whitall in charge.

THE UNITED STATES STEAM ENGINE CO., formerly the American Steam Motor Co., will build a new engine on the lines of the Farmer and Bardenwerper engines, with which it has been experimenting.

THE D. F. HOLMAN RAILWAY TRACK-LAYER CO. reports the placing in operation of one of its standard tracklayers on the Charlotte Harbor & Northern R. R. in Florida.

W. S. BARSTOW & COMPANY, of New York and Portland, Ore., have recently opened a Montreal office in the Bank of Ottawa Building, which will be in charge of Mr. Robert S. Stangland. This extension is necessitated through increase of business in Canada.

THE AMERICAN REFRACTORIES COMPANY of Joliet has become interested with the Olive Hill Fire Brick Company of Olive Hill, Ky., and will hereafter have a joint selling agency in Chicago, in the new Commercial Bank building. As this building will not be completed until May 1, all business until then will be transacted from the works office of the American Refractories Company at Joliet.

THE BALDWIN LOCOMOTIVE WORKS completed its 30,000th locomotive on Feb. 7. The works is now by far the largest locomotive building concern in the world, employing over 19,000 men and having a capacity of over 2,500 locomotives per annum. Locomotive No. 30,000 was built for the Pittsburg, Shawmut & Northern R. R., and is a heavy pusher engine weighing 458,000 lbs. with the tender, and fitted with Vauclain superheater.

THE POWER SPECIALTY CO. reports the following orders recently received for the Foster superheater for installation in the various best known types of water tube boilers: Northern Colorado Power Co., Denver Gas & Electric Co., Norwich & Westerly Railroad, Haverhill Electric Co., Electric Company of America, Allis-Chalmers Co., Westinghouse, Church, Kerr & Co., Westinghouse Electric & Mfg. Co., Ingersoll-Rand Co., each order being for upwards of 5,000 HP.

THE AMERICAN BLOWER CO. reports the following as a partial list of sales of heating and ventilating apparatus: Adelphi Theater, Philadelphia, Pa.; Y. M. C. A., Syracuse, N. Y.; High School Annex, Tyler St., Trenton, N. J.; Majestic Theater, Springfield, Ill.; Hudson County Almshouse, Snake Hill, N. J.; South McAlester High School, South McAlester, Ind. T.; Nottingham School, Nottingham, Ohio; Women's Hospital, Michigan Asylum for Insane, Kalamazoo, Mich.; Windgert School, Detroit, Mich.; Canal Bank, New Orleans, La.; U. of P. Veterinary Hospital, Philadelphia, Pa.; Hoffman House, New York.

THE AUSTIN MFG. CO. reports the following as a list of sales of Austin crushers since Jan. 1: Chicago, Northwestern Ry. Co., Chicago, Ill., two plants, each consisting of one No. 7½ and No. 5 crushers with elevator, screen, two hoists, and twelve rear end-dump quarry cars, one of which will be installed at Feebles, Wis., the other at Cedar Rapids, Iowa; the Southern Power Co., Charlotte, N. C., three No. 5 crushers; the Rock Springs Stone & Ore Co., Gadsden, Ala., No. 7½ crusher; the Fordwick Co., Fordwick, Va., two No. 7½ crushers and one No. 3 crusher; Alsens American Portland Cement Works, Alsens, N. Y., No. 8 crushing plant complete; Greenville Silica Sand & Quarry Co., Greenville, Pa., No. 5 crusher; American Lime Works, Spring City, Tenn., No. 3 crushing plant; Keegan & Dillon, Montreal, Canada, No. 5 crusher; Corporation of Cornwall, Cornwall, Ont., No. 3 crusher; Mulhern & Williams, Pierreville, Quebec, Can., No. 3 crushing plant; Moose Mountain Mines, Ltd., Sudbury, Ont., No. 8 and No. 5 crushers, together with elevator and screen; Nast Bros. Lime & Stone Co., Marblehead, Wis., No. 5 crusher; J. Austin Williams, Minneapolis, Minn., No. 5 crushing plant complete; W. J. Prendergast, St. Paul, Minn., No. 5 crushing plant complete; Ortonville Consolidated Granite Co., Ortonville, Minn., No. 7½ crusher, with elevator and screen; G. H. Perry, Sioux Falls, S. D., No. 5 plant complete; Tulsa Limestone Ballast Co., Tulsa, Ind. T., No. 7½ and No. 5 crushers, with elevators, screens, etc.; Heman Construction Co., Fullerton Bldg., St. Louis, Mo., No. 5 crushing plant; St. Helens Quarry Co., Portland, Ore., No. 7½ crusher; Southern California Cement Co., Riverside, Cal., one No. 8 and two No. 4 crushers; City of Cloquet, Minn., No. 3 crushing plant; Nehawka Stone Co., Lincoln, Neb., No. 5 crushing plant; Newcastle Portland Cement Co., Newcastle, Pa., two No. 8 and two No. 6 crushers together with elevators, screens, etc.; Munro Mining Co., Hibbing, Minn., No. 7½ crusher; Calumet Ore Co., Iron Mountain, Mich., No. 7½ crusher; Swan Creek Phosphate Co., Anna, Ill., No. 7½ crusher; Indiana Gravel Co., Attica, Ind., No. 5 crushing plant complete; Willard Kitchen Co., Ltd., Fredericton, N. B., No. 3 crushing plant complete. We have just completed the filling of an order of five No. 8 crushers purchased by the Tennessee Coal, Iron & R. R. Co., of Birmingham, Ala.

TRADE PUBLICATIONS.

HOISTING MACHINERY.—Parker Hoist & Machine Co., Chicago, Ill. Catalogue No. 19. Paper; 5 × 6¾ ins.; pp. 88; illustrated.

Hoisting engines, cranes, derricks, hoists and all kinds of contractors' supplies are listed, without price, in this catalogue.

BUCKET ELEVATORS.—Allis-Chalmers Co., Milwaukee, Wis. Publication No. 115. Cloth; 6 × 9¼ ins.; pp. 8; illustrated.

This is an instruction book containing directions for erecting Gates elevators.

JIG CONCENTRATOR.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1403. Paper; 8 × 10½ ins.; pp. 12; illustrated.

This is a reprint of a former bulletin and describes the Hancock jig for use where the ore is too refractory for water concentration.

OIL CUPS.—Automatic Oil Cup Co., 155-159 Huron St., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 10; illustrated.

The Bangs automatic oil cup is described. These cups are made for reciprocating motions, rotating motions, locomotives, printing presses, bicycles, automobiles, etc.

TAPE SPLICE.—Clinton B. Alexander, C. E., Clearfield, Pa. Paper; 3½ × 6 ins.; circular; illustrated.

The Little Giant splice is for repairing broken steel tapes in the field, and a number of testimonials indicate its practical value and efficiency.

VITRIFIED CLAY PRODUCTS.—Laclede Fire Brick Mfg. Co., St. Louis, Mo. Paper; 3¼ × 6½ ins.; pp. 24; illustrated.

Sewer pipe, well tubing, hollow floor tile, drain tile and wall coping are among the specialties listed, in addition to fire brick and blocks of various kinds.

PORTLAND CEMENT. — German-American Portland Cement Works, Marquette Bldg., Chicago, Ill. Paper; 7 × 9 ins.; pp. 40; illustrated.

This pamphlet comprises a number of views of concrete building, arch bridges, piers, etc., in which this company's Owl cement has been used.

AUTOMATIC BLOCK SIGNALS. — Union Switch & Signal Co., Pittsburg, Pa. Bulletin No. 30. Paper; 6 × 9 ins.; pp. 12; illustrated.

This is a reprint from "The Railway and Engineering Review" describing the automatic block signal system, operated by storage batteries, of the Lake Shore & Michigan Southern Ry.

FIRE BRICKS.—Harbison-Walker Refractories Co., Farmers' Bank Bldg., Pittsburg, Pa. Paper; 3¼ × 6 ins.; pp. 15; illustrated.

Brick for cupola lining is discussed in this booklet. Suggestions how to obtain the best results in laying bricks, the kind of fire clay to use, etc., are given. The regular sizes and shapes carried in stock are listed.

PIPE UNIONS.—Western Tube Co., Kewanee, Ill. Paper; 5 × 7½ ins.; pp. 6; illustrated.

The male and female "Kewanee" unions are described in this pamphlet. With this union, connection can be made to any female opening without the use of a nipple. These unions are also made in the standard style.

CONCRETE CHIMNEYS.—Weber Steel-Concrete Chimney Co., Chicago. Paper; 5½ × 8¼ ins.; pp. 8.

This pamphlet consists of a list of 230 chimneys built by this company, with their dimensions. They include several with heights of 200, 250 and 275 ft., while the largest is 350 ft. high and 18 ft. diameter; this is at Butte, Mont.

BRICK KILN.—P. L. Youngren, Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 32; illustrated.

The Youngren kiln is of the continuous type, and fired by gas, having thus a better control of the heat and more economical use of fuel than the ordinary type of kiln. The construction and operation are described in detail, and testimonials are given.

ROOFING.—The Philip Carey Mfg. Co., Lockland, Cincinnati, O. Paper; 6 × 9 ins.; pp. 26; illustrated.

The Carey roofing is a flexible sheet formed of a combination of felt, asphalt, asbestos, cement and burlap, compressed under steam rollers. After being laid it is given a finishing coat of magnesia paint. Its special properties and advantages are set forth in the pamphlet.

GAS PRODUCERS.—The Wellman-Seaver-Morgan Co., Cleveland, Ohio. Circular No. G P-1; paper; 6 × 9 ins.; pp. 32; illustrated.

This publication describes the Hughes mechanically poked, also hand poked, continuous gas producers. Comparisons of cost of the two styles of producers and cost of operation are given, together with many cuts of different arrangements of plants.

DERRICKS.—Dobbie Foundry & Machine Co., Niagara Falls, N. Y. Catalogue No. 15, 1907. Paper; 9¼ × 6 ins.; pp. 262; illustrated.

All kinds of derricks, hoists, winches and cranes, together with their accessories, are listed with principal dimensions and price. The catalogue also lists, in addition to the machinery given above, practically all kinds of tools and equipment used by contractors and quarrymen.

FILTER.—Blaisdell Co., Pacific Electric Building, Los Angeles, Cal. Catalogue A. Paper; 6 × 9¼ ins.; pp. 10; illustrated.

The Butters filter for use in separating the solution from the slime, when the cyanide process is used, is described. It is claimed that this filter will handle slime which cannot be treated by any other method; also that it filters at a minimum cost.

SPROCKET CHAIN.—Michigan Sprocket Chain Co., Detroit, Mich. Catalogue No. 5. Cloth; 6 × 9 ins.; pp. 248; illustrated.

Many styles of detachable sprocket chain, riveted drive, pintle and carrier chains, log-haul-ups, sprocket wheels, clutches, take-ups, malleable iron buckets, elevator arms, pillow blocks, etc., are described and prices given. The principal dimensions of the different fittings are given.

PUMPING MACHINERY.—The Hill Machine Co., Anderson, Ind. Paper; 6 × 9 ins.; pp. 60; illustrated.

This is a catalogue and price list of deep-well pumps and horizontal pumps driven by steam, electric motors or gas engines. House supply pumps, feed pumps, and deep-well supplies are also included. A separate small 12-page pamphlet is devoted to the Hill silent electric house pump.

FUEL ECONOMY.—Heinrich Mfg. Co., Milwaukee, Wis. Paper; 5 × 9 ins.; pp. 16; illustrated.

The Heinrich system consists of an improved boiler setting, with forced draft and automatic steam pressure regulation, and provision for ensuring complete combustion of the gases. Particulars of tests are given together with copies of testimonials from firms using this system in their power plants.

PORTLAND CEMENT.—Chicago Portland Cement Co., 1016 Stock Exchange Building, Chicago. Paper; 6 × 8¼ ins.; pp. 40; illustrated.

This pamphlet consists mainly of a number of excellent half-tone engravings of a variety of structures in which "Chicago A A" cement has been used. These include large and small arch spans, bridge piers, canal locks, dams, etc.; also concrete-block buildings and cast decorative details.

CONCRETE MACHINERY.—National Concrete Machinery Co., Milwaukee, Wis. Paper; 10 × 6½ ins.; pp. 63; illustrated.

Machines for making one-piece and two-piece concrete building blocks, with molds for various shapes and patterns of plain and ornamental blocks, occupy the greater part of this pamphlet. Concrete mixers and concrete fence-post machines are also included and there are a number of views of buildings built of the National concrete blocks.

ROAD BUILDING MACHINERY.—American Road Machine Co., Kennett Square, Pa. 30th annual catalogue. 6¾ × 9½ ins.; pp. 60; illustrated.

This company manufactures all manner of machinery and material for use in building roads in both country and city. It makes a particular specialty of rock crushers to which a large portion of this catalogue is devoted. Other articles listed are road graders and rollers, stone spreaders, scrapers, road plows, street sweepers and sewer pipe.

DITCHING MACHINE.—F. C. Austin Drainage Excavator Co., Railway Exchange, Chicago. Paper; 7 × 10 ins.; pp. 16; illustrated.

The Austin machine rests on the sides of the cut and has buckets which cut transversely to the desired cross-section of the ditch, dumping the material from cantilever extensions at both sides. The illustrations show the machine at work, and also show views of ditches excavated by this machine and by dredging machines.

CONCRETE MIXERS.—Municipal Engineering & Contracting Co., Railway Exchange, Chicago. Paper; 7 × 10 ins.; pp. 20; illustrated.

The Chicago improved cube concrete mixer is described and illustrated, and the machine is shown equipped with various appliances, including a charging bucket, automatic dumping device, material hopper, and a belt conveyor for distributing and spreading the concrete. Some of the machines are mounted on wagon frames with gas or steam engines, and are self-propelling.

HOISTING MACHINERY.—Parker Hoist & Machine Co., Chicago, Ill. Paper; 5 × 6¾ ins.; pp. 88; illustrated.

This is a descriptive catalogue and price list of a variety of machinery and appliances: hoisting engines, derricks, crane derricks (with horizontal boom for traveling trolley hoist), hand winches, derrick fittings, traveling and jib cranes, elevators, bucket elevators, I-beam trolleys, etc. The supplies and appliances include concrete mixers, concrete carts, wheelbarrows, wire rope, blocks and hooks.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 80.

PAVING.

Port Chester, N. Y.

Proposals for Improvement of Ponings and Prospect Streets will be received at the office of the Village Clerk until 8 o'clock P. M., March 18th, 1907.

The approximate quantity of work will be as follows:

Excavation, 3,300 cubic yards.
Curbing, 2,400 lineal feet.
Vitrified pipe drains, 600 lineal feet.
Wood pavement, 8,300 square yards.
Brick pavement, 2,380 square yards.
Macadam pavement, 2,557 square yards.

Plans and specifications may be seen and proposal sheets obtained at the Clerk's office.

C. D. CAMP, Village Clerk.

February 25th, 1907. 9-2t

PUMPS.

Fort Worth, Tex.

Proposals will be received by the undersigned, acting for the City of Fort Worth Water-Works Department, on March 15, 1907, at 2 P. M., for two 3,000,000-gallon high duty pumps. Certified check for 5% of the contract price, made payable to W. D. Harris, Mayor, must accompany each bid.

The right to reject any or all bids is reserved, and to accept the proposal considered by them to be best suited to the City's requirements.

Full information as to condition of service may be obtained by addressing H. L. Calhoun, Supt. Water-Works, or the undersigned.

C. G. HARROLD, Chairman;
E. P. MADDOX,
R. L. ARMSTRONG,
Water-Works Committee.

Feb. 18, 1907. 9-3t

DEPARTMENT OF THE INTERIOR, Office of the Superintendent U. S. Capitol Building and Grounds, Washington, D. C., February 23, 1907.—Sealed proposals, in duplicate, will be received and opened at the above office at 12 o'clock, noon, on Saturday, March 16, 1907, for furnishing and delivering at site, Wrought Iron Pipe, Pipe Bends, Cast Iron Fittings and Gate Valves for hot water heating work, House of Representatives Office Building. Specifications can be had on application to the above office. Bids must be accompanied by certified check or surety bond in the sum of 5% of the amount of bid. Contract will require approved surety bond in the sum of 50% of the amount of contract. The right is reserved to reject any or all bids, or to waive any technicality or informality in any bid. ELLIOTT WOODS, Superintendent U. S. Capitol Building and Grounds. Approved: E. A. HITCHCOCK, Secretary. 9-2t

U. S. ENGINEER OFFICE, Mobile, Ala., February 26, 1907.—By authority of the Board of Commissioners of the Soldiers' Home, District of Columbia, I will offer for sale at public auction on the premises at 12 o'clock noon, Saturday, March 30, 1907, the property known as the "Asylum lot," located near Scranton, Miss., containing about 72 acres, covered with long leaf yellow pine timber, and fronting on Pascagoula Bay, about 922 feet. Terms of sale, $500 down, balance upon delivery of deed. For further information, apply to this office. HENRY JERVEY, Major, Corps of Engineers, U. S. A. 9-4t

SITUATIONS OPEN

WANTED—One experienced map and one construction draftsman familiar with timber construction. FAYETTE ENGINEERING & CONTRACTING CO., Uniontown, Pa. 9-1t

WANTED—An experienced sprinkler engineer, competent to make layouts, plan and superintend installation; one experienced in soliciting preferred. Apply by letter, stating full particulars. I. TANENBAUM SON & CO., 17 Battery Place. 9-1t

THE CITY OF NATCHEZ, Mississippi, desires to secure the service of a competent consulting engineer to take charge of street paving. The first contract will amount to over $50,000.00. Applicant will state salary desired on both percentage basis and monthly salary. Address A. C. JACOBS, Chairman Committee on Street Paving, Natchez, Mississippi. 9-1t

WANTED—Experienced surveyor as partner to establish engineering office; location New York State; business assured. Address "K. B. 9," Engineering News, New York. 9-1t

CAPABLE ASSISTANT in management of an established and money-making building contract business. Excellent opportunity for a man of ability. Salary, or an interest in the business if the right man. Also want a building superintendent and an office man. You must present something substantial and worthy of consideration or we cannot reply. Address "L. B. 9," Engineering News, New York. 9-1t

No. 9.

Supplem

CONSTRUCT
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List of
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Water
Sewerag
Streets
Manufac
Miscella
U. S. P
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Contract
PROPOSAL

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